

# Learning Calendar 2022

PETRONAS Group Edition

Rev4 | May22

Start Your Technical Learning Journey Here





# Your Preferred Technical Learning Solutions Partner

We **accelerate** your competency development through **experiential learning**

We **deliver** customised niche learning solutions anchored on **world-class facilities** and industry-experienced instructors

We further support your **exceptional growth** because we care about your **technical competencies**



# HRD Corp Claimable

Selected INSTEP programmes are now **HRD Corp Claimable** and **more** will be registered and updated from time to time



Please **notify your respective HR focal** to apply for the grant before joining the training programme

Employers are advised to apply for the grant **at least five (5) working days before** participant(s) attend the training programme. Failure to do so may result in invalid claims to HRD Corp

Claim amounts may vary and is subjected to **HRD Corp Allowable Cost Matrix** calculations



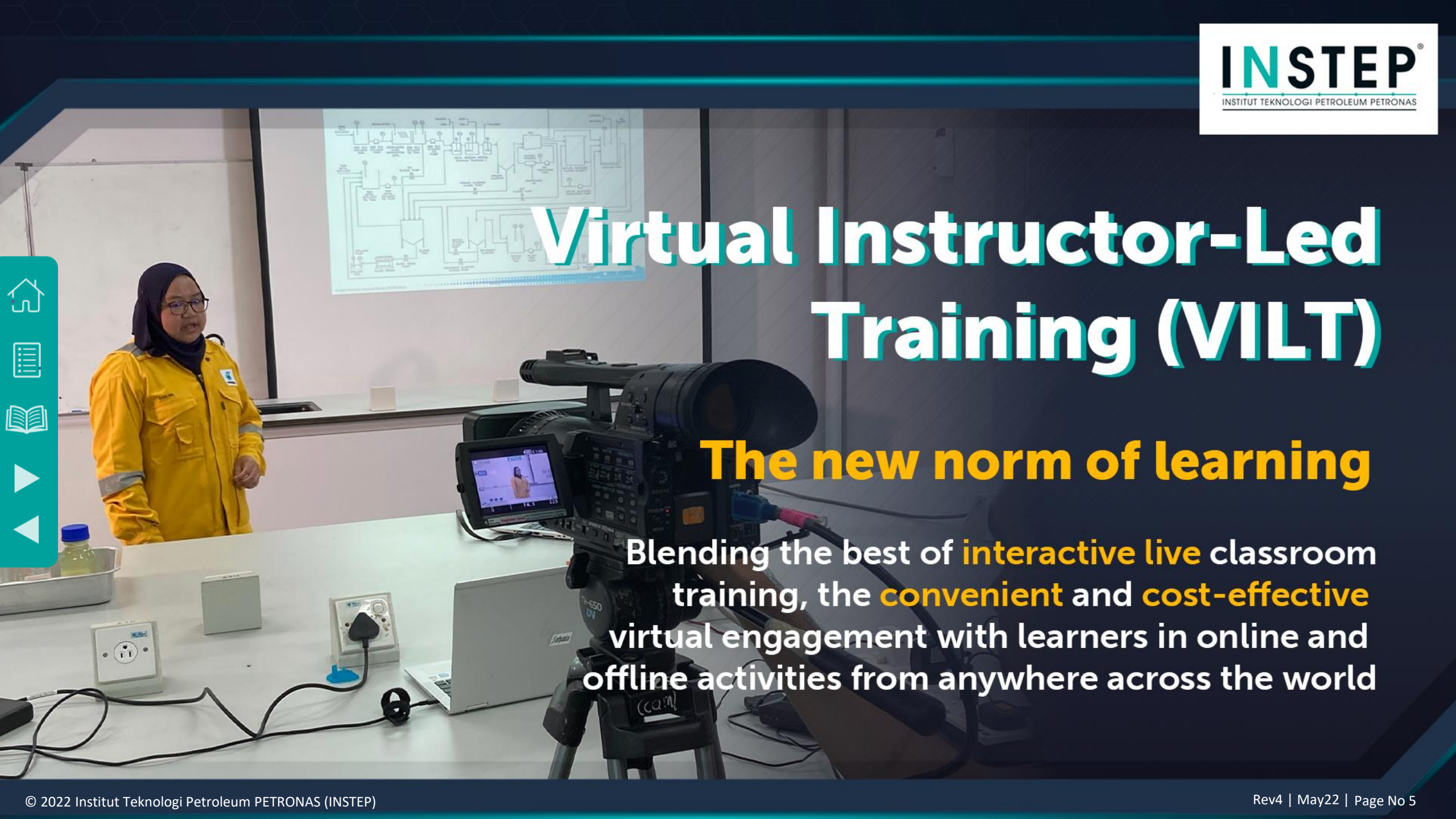
# INSTEP is now MBOT approved training provider

## Earn your CPD hours today

INSTEP has been approved by Malaysian Board of Technologist (MBOT) as an **Approved Training Provider (ATP)** to deliver MBOT-certified training programmes for **Continuing Professional Development (CPD) hours** collection system. In MBOT, CPD is essential to renew the certificate of registration for Professional Technologists and Certified Trainers only.







# Virtual Instructor-Led Training (VILT)

**The new norm of learning**

Blending the best of **interactive live** classroom training, the **convenient** and **cost-effective** virtual engagement with learners in online and offline activities from anywhere across the world



# Experiential Learning

## Hands-on experiences and reflection

Interactive theoretical learning in classroom,  
hands-on-training at practical workshop and  
**experiential learning** at INSTEP's first-of-its-kind,  
**Upstream Downstream Training Plant (UDTP)**  
will complement your digital learning experience





# Innovative Technology Testing and Deployment

**UDTP is the first-of-its-kind in the world**

Upstream Downstream Training Plant (UDTP) simulates real Upstream and Downstream plant scenarios in safe environment and creates a **perfect ecosystem as testbed** to test and pilot new and **innovative technology deployment**



# PETRONAS Learning Calendar

Click on the tab at the top  
to view our learning solutions

Easy registration via  
mylearningX to unleash  
your full potential



*You can use search button  
in PDF to search for our programmes*





# Glossary of Terms



NEW PROGRAMME



UPDATED DATE



UPDATED FEE

A&C : Assessment & Certification

F2F : Face-to-Face Experiential Learning

HRD Corp : Human Resource Development Corporation

NET UPG : NET Upgrading

NR : Non-Residential

R : Residential

SKG : Skill Group

VILT : Virtual Instructor-Led Training





## Skill Group (SKG)

## NET Upgrading (NET UPG)

## Assessment & Certification (A&C)

## Others

### Page Programme

|    |                                                                                                           |               |
|----|-----------------------------------------------------------------------------------------------------------|---------------|
| 12 | SKG09: Geoscience                                                                                         | UPDATED DATE  |
| 14 | SKG10: Petroleum Engineering                                                                              |               |
| 17 | SKG11: Civil & Pipeline Engineering                                                                       | UPDATED DATE  |
| 20 | SKG12: Mechanical Engineering                                                                             | NEW PROGRAMME |
| 23 | SKG13: Electrical Engineering                                                                             | UPDATED DATE  |
| 24 | SKG14: Instrumentation & Control                                                                          | UPDATED DATE  |
| 25 | SKG15: Materials, Corrosion & Inspection Engineering                                                      | UPDATED DATE  |
| 27 | SKG16: Process Operations                                                                                 |               |
| 36 | SKG18: Health, Safety & Environment Programme                                                             |               |
| 38 | SKG19: Project Management                                                                                 | UPDATED DATE  |
| 40 | SKG25: Drilling                                                                                           |               |
| 43 | NET UPG: Petroleum Industry Programme (PIP)                                                               |               |
| 44 | NET UPG: Exploration & Production (E&P)                                                                   | NEW PROGRAMME |
| 45 | NET UPG: Process & Analytical (P&A) – Process Operations                                                  |               |
| 47 | NET UPG: Process & Analytical (P&A) – Laboratory                                                          |               |
| 48 | NET UPG: Civil                                                                                            | UPDATED DATE  |
| 49 | NET UPG: Mechanical & Inspection (M&I)                                                                    | NEW PROGRAMME |
| 51 | NET UPG: Electrical                                                                                       | UPDATED DATE  |
| 53 | NET UPG: Instrumentation                                                                                  |               |
| 55 | NET UPG: Health, Safety & Environment (HSE) – HSE Training Matrix Programme                               |               |
| 58 | NET UPG: General Studies – English Empowerment for NET                                                    | UPDATED DATE  |
| 60 | A&C: Exploration & Production (E&P) Special Project                                                       |               |
| 61 | A&C: Process & Analytical (P&A) – Panel Operator Training & Certification Programme (POTCP)               |               |
| 62 | A&C: Process & Analytical (P&A) – Vessel Familiarisation & Shipshore Safety Checklist                     |               |
| 63 | A&C: Process & Analytical (P&A) – CePIETSO (BP)                                                           |               |
| 64 | A&C: Mechanical & Inspection (M&I) – PESITAS                                                              |               |
| 65 | A&C: Mechanical & Inspection (M&I) – PMS, PRBI, ICML, ASNT & MIBOC                                        |               |
| 66 | A&C: Electrical – IECEX Competency Training Programme & Assessment                                        |               |
| 67 | A&C: Electrical – Chargeman Programme                                                                     |               |
| 68 | A&C: Instrumentation                                                                                      |               |
| 69 | A&C: Health, Safety & Environment (HSE) – Authorised Entrant and Standby Person for Confined Space (AESP) |               |
| 70 | A&C: Health, Safety & Environment (HSE) – CePSWaM                                                         |               |
| 71 | A&C: Health, Safety & Environment (HSE) – Tripod Beta                                                     | UPDATED DATE  |
| 72 | A&C: Health, Safety & Environment (HSE) – PCSB Permit to Work (PTW) Level 3                               |               |
| 73 | A&C: PECAS Training Programme                                                                             |               |
| 75 | Others: PETRONAS Assurance Delivery Excellence (PADEX)                                                    |               |
| 76 | Others: Root-Cause Analysis (RCA) Certification Programme                                                 | UPDATED DATE  |
| 78 | Upstream Commercial Academy (UCA)                                                                         |               |
| 79 | 3PLAY Onboarding Programme                                                                                |               |





# Skill Group (SKG)





## SKG09: Geoscience

Programme Leader:  
 M Hafiz Khairudin  
 +609-668 6102  
 +6017-582 8368  
[mhafiz.khairudin@petronas.com.my](mailto:mhafiz.khairudin@petronas.com.my)

|                               |                                                                   | Level | Prog. Type | Venue                     | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |     |     |     |       |          |       |       |       |       |      |
|-------------------------------|-------------------------------------------------------------------|-------|------------|---------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-----|-----|-----|-------|----------|-------|-------|-------|-------|------|
|                               |                                                                   |       |            |                           |                    |                 |         |         |                 |                | Jan  | Feb | Mar | Apr | May | June  | July     | Aug   | Sept  | Oct   | Nov   | Dec  |
| 1                             | SKG09 : Integrated Module, L1                                     | 1     | F2F (NR/R) | KL & Miri                 | Yes                | 10,080          | 7       | 15      | 12              | Coming Soon    |      |     |     |     |     | 13-24 |          |       |       |       |       |      |
| 2                             | SKG09 : Basic Quantitative Interpretation, L2                     | 2     | F2F (NR)   | KL                        | Yes                | 2,350           | 7       | 15      | 3               | Coming Soon    |      |     |     |     |     |       | 27-29    |       |       |       |       |      |
| 3                             | SKG09 : Principle of Seismology, L2                               | 2     | F2F (NR)   | KL                        | Yes                | 3,760           | 5       | 15      | 5               | Coming Soon    |      |     |     |     |     |       |          |       | 5-9   |       |       |      |
| <b>Exploration Geoscience</b> |                                                                   |       |            |                           |                    |                 |         |         |                 |                |      |     |     |     |     |       |          |       |       |       |       |      |
| 4                             | SKG09 : Basin Analysis, L2                                        | 2     | F2F (NR)   | KL                        | Coming Soon        | 3,990           | 6       | 15      | 5               | Coming Soon    |      |     |     |     |     |       |          |       | 5-9   |       |       |      |
| 5                             | SKG09 : Geological Operations, L2                                 | 2     | F2F (NR)   | Putrajaya                 | Yes                | 6,350           | 6       | 15      | 5               | Coming Soon    |      |     |     |     |     |       |          |       |       |       | 14-18 |      |
| 6                             | SKG09 : Petroleum Economic for Exploration, L2                    | 2     | F2F (NR)   | Putrajaya                 | Yes                | 5,880           | 8       | 15      | 5               | Coming Soon    |      |     |     |     |     |       |          |       | 19-23 |       |       |      |
| 7                             | SKG09 : Seismic Interpretation and Mapping, L2                    | 2     | F2F (NR)   | KL                        | Coming Soon        | 3,790           | 6       | 15      | 5               | Coming Soon    |      |     |     |     |     |       |          | 1-5   |       |       |       |      |
| 8                             | SKG09 : Sequence Stratigraphy, L2                                 | 2     | F2F (NR)   | KL                        | Yes                | 3,630           | 6       | 15      | 5               | Coming Soon    |      |     |     |     |     |       |          |       |       | 10-14 |       |      |
| 9                             | SKG09 : Basin Analysis, L3                                        | 3     | F2F (NR)   | KL                        | Coming Soon        | 4,380           | 5       | 15      | 5               | Coming Soon    |      |     |     |     |     |       |          |       |       | 3-7   |       |      |
| 10                            | SKG09 : Integrated Seismic Interpretation and Mapping, L3         | 3     | F2F (NR)   | KL                        | Coming Soon        | 19,890          | 15      | 15      | 6               | Coming Soon    |      |     |     |     |     |       |          | 15-19 |       |       |       |      |
| 11                            | SKG09 : Seismic and Sequence Stratigraphy, L3                     | 3     | F2F (R)    | Labuan & Kota Kinabalu    | Yes                | 15,360          | 12      | 15      | 12              | Coming Soon    |      |     |     |     |     |       |          |       |       |       |       | 5-16 |
| <b>Reservoir Geoscience</b>   |                                                                   |       |            |                           |                    |                 |         |         |                 |                |      |     |     |     |     |       |          |       |       |       |       |      |
| 12                            | SKG09 : Applied Sedimentary Petrology, L2                         | 2     | F2F (NR)   | KL                        | Coming Soon        | 2,290           | 5       | 15      | 4               | Coming Soon    |      |     |     |     |     |       |          | 8-11  |       |       |       |      |
| 13                            | SKG09 : Integrated Reservoir Modeling School (IRMS), L2           | 2     | F2F (NR)   | KL                        | Yes                | 2,400           | 8       | 15      | 7               | Coming Soon    |      |     |     |     |     |       |          | 15-19 |       |       |       |      |
| 14                            | SKG09 : Reservoir Mapping and Hydrocarbon Resource Assessment, L2 | 2     | F2F (NR)   | KL                        | Yes                | 5,000           | 6       | 15      | 8               | Coming Soon    |      |     |     |     |     |       |          |       |       | 12-21 |       |      |
| 15                            | SKG09 : Sedimentology, L2                                         | 2     | F2F (NR/R) | KL & Pekan, Pahang        | Coming Soon        | 8,000           | 10      | 15      | 12              | Coming Soon    |      |     |     |     |     |       |          |       | 19-30 |       |       |      |
| 16                            | SKG09 : Structural Geology, L2                                    | 2     | F2F (NR/R) | KL & Tanjung Balau, Johor | Coming Soon        | 6,820           | 7       | 15      | 5               | Coming Soon    |      |     |     |     |     |       | 28/6-7/7 |       |       |       |       |      |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes



## SKG09: Geoscience

Programme Leader:  
 M Hafiz Khairudin  
 +609-668 6102  
 +6017-582 8368  
[mhafiz.khairudin@petronas.com.my](mailto:mhafiz.khairudin@petronas.com.my)

| Programme Leader:<br>M Hafiz Khairudin<br>+609-668 6102<br>+6017-582 8368<br><a href="mailto:mhafiz.khairudin@petronas.com.my">mhafiz.khairudin@petronas.com.my</a> |                                                                                   | Level | Prog. Type | Venue                         | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |     |     |          |          |       |       |      |             |            |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|------------|-------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-----|-----|----------|----------|-------|-------|------|-------------|------------|-----|
|                                                                                                                                                                     |                                                                                   |       |            |                               |                    |                 |         |         |                 |                | Jan  | Feb | Mac | Apr | May      | June     | July  | Aug   | Sept | Oct         | Nov        | Dec |
| Reservoir Geoscience                                                                                                                                                |                                                                                   |       |            |                               |                    |                 |         |         |                 |                |      |     |     |     |          |          |       |       |      |             |            |     |
| 17                                                                                                                                                                  | SKG09 : Advance Reservoir Geophysics Characterisation, L3                         | 3     | F2F (NR)   | KL                            | Coming Soon        | 3,180           | 7       | 15      | 5               | Coming Soon    |      |     |     |     |          |          |       | 8-12  |      |             |            |     |
| 18                                                                                                                                                                  | SKG09 : Advanced Time Depth Conversion and Velocities Analysis, L3                | 3     | F2F (NR)   | KL                            | Yes                | 3,120           | 5       | 15      | 4               | Coming Soon    |      |     |     |     |          |          |       | 12-15 |      |             |            |     |
| 19                                                                                                                                                                  | SKG09 : Integrated Reservoir Modeling School (IRMS), L3                           | 3     | F2F (NR)   | KL                            | Yes                | 2,660           | 8       | 15      | 7               | Coming Soon    |      |     |     |     |          | 27/6-4/7 |       |       |      |             |            |     |
| 20                                                                                                                                                                  | SKG09 : Reservoir Mapping and Hydrocarbon Resource Assessment & Risk Analysis, L3 | 3     | F2F (NR)   | KL                            | Yes                | 5,910           | 8       | 15      | 10              | Coming Soon    |      |     |     |     |          |          |       |       |      | 31/10-11/11 |            |     |
| 21                                                                                                                                                                  | SKG09 : Sedimentology, L3                                                         | 3     | F2F (R)    | Bintulu, Miri & Kota Kinabalu | Coming Soon        | 18,650          | 14      | 15      | 12              | Coming Soon    |      |     |     |     |          |          |       |       |      |             | 21/11-2/12 |     |
| Geophysics                                                                                                                                                          |                                                                                   |       |            |                               |                    |                 |         |         |                 |                |      |     |     |     |          |          |       |       |      |             |            |     |
| 22                                                                                                                                                                  | SKG09 : Basic Seismic Data Acquisition & Processing, L2                           | 2     | F2F (NR)   | KL                            | Coming Soon        | 3,360           | 6       | 15      | 5               | Coming Soon    |      |     |     |     | 30/5-3/6 |          |       |       |      |             |            |     |
| 23                                                                                                                                                                  | SKG09 : Inversion Theory, Seismic Imaging and Modeling, L2                        | 2     | F2F (NR)   | KL                            | Coming Soon        | 2,340           | 5       | 15      | 3               | Coming Soon    |      |     |     |     |          | 25-27    |       |       |      |             |            |     |
| 24                                                                                                                                                                  | SKG09 : Multi-Component & 4D/Time-Lapse Seismic Data Acquisition & Processing, L2 | 2     | F2F (NR)   | KL                            | Coming Soon        | 2,610           | 5       | 15      | 3               | Coming Soon    |      |     |     |     |          |          | 22-24 |       |      |             |            |     |
| 25                                                                                                                                                                  | SKG09 : Wave Theory & Geophysical Method (Plus Survey Design), L2                 | 2     | F2F (NR)   | KL                            | Coming Soon        | 3,320           | 5       | 15      | 5               | Coming Soon    |      |     |     |     |          |          |       | 26-30 |      |             |            |     |
| 26                                                                                                                                                                  | SKG09 : Advanced Wave Theory, Seismic Data Processing & Inversion Theory, L3      | 3     | F2F (NR)   | KL                            | Yes                | 3,360           | 6       | 15      | 5               | Coming Soon    |      |     |     |     |          | 18-22    |       |       |      |             |            |     |
| 27                                                                                                                                                                  | SKG09 : Quantitative Interpretation : Advanced Geophysics Interpretation, L3      | 3     | F2F (NR)   | KL                            | Coming Soon        | 21,230          | 4       | 15      | 5               | Coming Soon    |      |     |     |     |          |          |       |       |      |             | 21-25      |     |



# SKG10: Petroleum Engineering

| Programme Leader:<br>Mohamad Muaz Bin Abdul Rasid<br>+609-668 6148<br>+6016-656 9468<br>mohamadmuaz.abdrasi@petronas.com.my |                                                                          |  |  |  | Level | Prog. Type | Venue    | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022                            |         |        |     |     |      |         |     |         |     |     |     |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--|--|--|-------|------------|----------|--------------------|-----------------|---------|---------|-----------------|----------------|---------------------------------|---------|--------|-----|-----|------|---------|-----|---------|-----|-----|-----|
|                                                                                                                             |                                                                          |  |  |  |       |            |          |                    |                 |         |         |                 |                | Jan                             | Feb     | Mac    | Apr | May | June | July    | Aug | Sept    | Oct | Nov | Dec |
| Common                                                                                                                      |                                                                          |  |  |  |       |            |          |                    |                 |         |         |                 |                |                                 |         |        |     |     |      |         |     |         |     |     |     |
| 1                                                                                                                           | SKG10 : E&P Core Programme, L1                                           |  |  |  | 1     | F2F (R)    | KL       | Yes                | 12,830          | 10      | 20      | 12              | Coming Soon    |                                 |         |        |     |     |      |         |     | 17 - 28 |     |     |     |
| Petrophysics                                                                                                                |                                                                          |  |  |  |       |            |          |                    |                 |         |         |                 |                |                                 |         |        |     |     |      |         |     |         |     |     |     |
| 2                                                                                                                           | SKG10 : Basic Clastic Petrophysical Analysis, L2 (VILT)                  |  |  |  | 2     | VILT       | MS Teams | Coming Soon        | 1,430           | 5       | 20      | 3               | Coming Soon    | Upon Request (Click to Enquire) |         |        |     |     |      |         |     |         |     |     |     |
| 3                                                                                                                           | SKG10 : Basic Rock Physics, L2 (VILT)                                    |  |  |  | 2     | VILT       | MS Teams | Yes                | 1,520           | 5       | 20      | 5               | Coming Soon    |                                 |         |        |     |     |      |         |     |         |     |     |     |
| 4                                                                                                                           | SKG10 : Cased Hole Log Interpretation, L2                                |  |  |  | 2     | F2F (NR)   | Kemaman  | Yes                | 4,780           | 8       | 20      | 5               | Coming Soon    |                                 |         |        |     |     |      |         |     | 14 - 18 |     |     |     |
| 5                                                                                                                           | SKG10 : Complex Lithology Interpretation, L2 (VILT)                      |  |  |  | 2     | VILT       | MS Teams | Coming Soon        | 1,430           | 5       | 20      | 4               | Coming Soon    | Upon Request (Click to Enquire) |         |        |     |     |      |         |     |         |     |     |     |
| 6                                                                                                                           | SKG10 : Fundamental of Petrophysics, L2 (VILT)                           |  |  |  | 2     | VILT       | MS Teams | Yes                | 1,520           | 5       | 20      | 5               | Coming Soon    |                                 |         | 7 - 11 |     |     |      |         |     |         |     |     |     |
| 7                                                                                                                           | SKG10 : Geology For Non-Geologist, L2 (VILT)                             |  |  |  | 2     | VILT       | MS Teams | Coming Soon        | 1,520           | 5       | 20      | 4               | Coming Soon    |                                 |         |        |     |     |      | 18 - 21 |     |         |     |     |     |
| 8                                                                                                                           | SKG10 : Image Log Analysis and Fractured Reservoir Evaluation, L2 (VILT) |  |  |  | 2     | VILT       | MS Teams | Coming Soon        | 1,520           | 5       | 20      | 5               | Coming Soon    | Upon Request (Click to Enquire) |         |        |     |     |      |         |     |         |     |     |     |
| 9                                                                                                                           | SKG10 : LWD Principles & Application, L2 (VILT)                          |  |  |  | 2     | VILT       | MS Teams | Yes                | 1,520           | 5       | 20      | 4               | Coming Soon    |                                 |         |        |     |     |      | 15 - 18 |     |         |     |     |     |
| 10                                                                                                                          | SKG10 : Integrated Reservoir Petrophysics, L3 (VILT)                     |  |  |  | 3     | VILT       | MS Teams | Coming Soon        | 2,400           | 5       | 20      | 10              | Coming Soon    | Upon Request (Click to Enquire) |         |        |     |     |      |         |     |         |     |     |     |
| Petroleum Economics                                                                                                         |                                                                          |  |  |  |       |            |          |                    |                 |         |         |                 |                |                                 |         |        |     |     |      |         |     |         |     |     |     |
| 11                                                                                                                          | SKG10 : Advanced App. Of Economic Modeling, L2 (VILT)                    |  |  |  | 2     | VILT       | MS Teams | Coming Soon        | 1,590           | 5       | 20      | 5               | Coming Soon    | Upon Request (Click to Enquire) |         |        |     |     |      |         |     |         |     |     |     |
| 12                                                                                                                          | SKG10 : Petroleum Contract, L2 (VILT)                                    |  |  |  | 2     | VILT       | MS Teams | Yes                | 1,430           | 5       | 20      | 3               | Coming Soon    |                                 |         |        |     |     |      |         |     |         |     |     |     |
| 13                                                                                                                          | SKG10 : Petroleum Economics System Appreciation, L2                      |  |  |  | 2     | F2F (NR)   | KL       | Coming Soon        | 2,100           | 8       | 20      | 3               | Coming Soon    |                                 |         |        |     |     |      |         |     | 17 - 19 |     |     |     |
| 14                                                                                                                          | SKG10 : Practices of Petroleum Economics I, L2 (VILT)                    |  |  |  | 2     | VILT       | MS Teams | Yes                | 1,430           | 5       | 20      | 3               | Coming Soon    |                                 | 15 - 17 |        |     |     |      |         |     |         |     |     |     |
| 15                                                                                                                          | SKG10 : Risk and Uncertainty in Petroleum Valuation, L3 (VILT)           |  |  |  | 3     | VILT       | MS Teams | Yes                | 1,700           | 5       | 20      | 6               | Coming Soon    | Upon Request (Click to Enquire) |         |        |     |     |      |         |     |         |     |     |     |



# SKG10: Petroleum Engineering

| Programme Leader:<br>Mohamad Muaz Bin Abdul Rasid<br>+609-668 6148<br>+6016-656 9468<br>mohamadmuaz.abdrasi@petronas.com.my |                                                                   |   |          |                |             |       |   |    |    |             | 2022                                            |     |     |     |     |         |       |         |         |              |         |     |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---|----------|----------------|-------------|-------|---|----|----|-------------|-------------------------------------------------|-----|-----|-----|-----|---------|-------|---------|---------|--------------|---------|-----|
|                                                                                                                             |                                                                   |   |          |                |             |       |   |    |    |             | Jan                                             | Feb | Mar | Apr | May | June    | July  | Aug     | Sept    | Oct          | Nov     | Dec |
| <b>Production Technology</b>                                                                                                |                                                                   |   |          |                |             |       |   |    |    |             |                                                 |     |     |     |     |         |       |         |         |              |         |     |
| 16                                                                                                                          | SKG10 : Contaminants Identification & Treatment, L2 (VILT)        | 2 | VILT     | MS Teams       | Coming Soon | 1,430 | 5 | 20 | 3  | Coming Soon | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |         |       |         |         |              |         |     |
| 17                                                                                                                          | SKG10 : Fluid Sampling, L2 (VILT)                                 | 2 | VILT     | MS Teams       | Coming Soon | 1,430 | 5 | 20 | 3  | Coming Soon |                                                 |     |     |     |     | 14 - 16 |       |         |         |              |         |     |
| 18                                                                                                                          | SKG10 : Formation Damage & Matrix Treatment Technology, L2 (VILT) | 2 | VILT     | MS Teams       | Yes         | 2,050 | 5 | 20 | 10 | Coming Soon |                                                 |     |     |     |     |         |       |         | 19 - 30 |              |         |     |
| 19                                                                                                                          | SKG10 : Production Analysis in Flow System, L2 (VILT)             | 2 | VILT     | MS Teams       | Yes         | 1,740 | 5 | 20 | 5  | Coming Soon |                                                 |     |     |     |     |         |       |         | 5 - 9   |              |         |     |
| 20                                                                                                                          | SKG10 : Production Chemistry, L2 (VILT)                           | 2 | VILT     | MS Teams       | Coming Soon | 2,180 | 5 | 20 | 5  | Coming Soon |                                                 |     |     |     |     |         |       |         |         | 10 - 14      |         |     |
| 21                                                                                                                          | SKG10 : Production Enhancement I, L2 (VILT)                       | 2 | VILT     | MS Teams       | Yes         | 1,520 | 5 | 20 | 5  | Coming Soon |                                                 |     |     |     |     |         | 18-22 |         |         |              |         |     |
| 22                                                                                                                          | SKG10 : Production Geochemistry, L2 (VILT)                        | 2 | VILT     | MS Teams       | Coming Soon | 1,420 | 5 | 20 | 2  | Coming Soon | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |         |       |         |         |              |         |     |
| 23                                                                                                                          | SKG10 : Sand Management & Control, L2                             | 2 | F2F (NR) | Kemaman        | Yes         | 6,300 | 8 | 20 | 5  | Coming Soon |                                                 |     |     |     |     |         |       |         |         |              |         |     |
| 24                                                                                                                          | SKG10 : Water Injection Management, L2 (VILT)                     | 2 | VILT     | MS Teams       | Coming Soon | 1,960 | 5 | 20 | 5  | Coming Soon |                                                 |     |     |     |     |         |       | 22 - 26 |         |              |         |     |
| 25                                                                                                                          | SKG10 : Well Completion Design I, L2                              | 2 | F2F (NR) | Kemaman        | Yes         | 5,860 | 5 | 20 | 5  | Coming Soon | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |         |       |         |         |              |         |     |
| 26                                                                                                                          | SKG10 : Advanced ESP and PCP Design & Operations, L3              | 3 | F2F (NR) | Johor Bahru/KL | Yes         | 8,990 | 8 | 20 | 5  | Coming Soon |                                                 |     |     |     |     |         |       |         |         |              |         |     |
| 27                                                                                                                          | SKG10 : Advanced Gas Lift & Field Modelling, L3 (VILT)            | 3 | VILT     | MS Teams       | Yes         | 1,870 | 5 | 20 | 5  | Coming Soon |                                                 |     |     |     |     |         |       |         |         | 31/10 - 4/11 |         |     |
| 28                                                                                                                          | SKG10 : Advanced Hydraulic Fracturing, L3 (VILT)                  | 3 | VILT     | MS Teams       | Yes         | 1,520 | 5 | 20 | 5  | Coming Soon | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |         |       |         |         |              |         |     |
| 29                                                                                                                          | SKG10 : Advanced Scale & Corrosion Management, L3 (VILT)          | 3 | VILT     | MS Teams       | Yes         | 1,740 | 5 | 20 | 5  | Coming Soon |                                                 |     |     |     |     |         |       |         |         |              |         |     |
| 30                                                                                                                          | SKG10 : Production Enhancement II, L3 (VILT)                      | 3 | VILT     | MS Teams       | Yes         | 1,870 | 5 | 20 | 5  | Coming Soon |                                                 |     |     |     |     |         |       |         |         | 17 - 21      |         |     |
| 31                                                                                                                          | SKG10 : Well Completion Design II, L3 (VILT)                      | 3 | VILT     | MS Teams       | Yes         | 1,520 | 5 | 20 | 5  | Coming Soon |                                                 |     |     |     |     |         |       |         |         |              | 21 - 25 |     |

## SKG10: Petroleum Engineering

| Programme Leader:<br>Mohamad Muaz Bin Abdul Rasid<br>+609-668 6148<br>+6016-656 9468<br>mohadamuaz.abdrasi@petronas.com.my |                                                            | Level | Prog. Type | Venue     | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022                                            |     |     |     |     |      |         |         |         |              |     |     |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------|------------|-----------|--------------------|-----------------|---------|---------|-----------------|----------------|-------------------------------------------------|-----|-----|-----|-----|------|---------|---------|---------|--------------|-----|-----|
|                                                                                                                            |                                                            |       |            |           |                    |                 |         |         |                 |                | Jan                                             | Feb | Mac | Apr | May | June | July    | Aug     | Sept    | Oct          | Nov | Dec |
| Reservoir Engineering                                                                                                      |                                                            |       |            |           |                    |                 |         |         |                 |                |                                                 |     |     |     |     |      |         |         |         |              |     |     |
| 32                                                                                                                         | SKG10 : EOR, L2                                            | 2     | F2F (R)    | Putrajaya | Yes                | 3,110           | 8       | 20      | 3               | Coming Soon    |                                                 |     |     |     |     |      |         |         | 10 - 12 |              |     |     |
| 33                                                                                                                         | SKG10 : Petroleum Fluid Analysis, L2 (VILT)                | 2     | VILT       | MS Teams  | Coming Soon        | 1,870           | 5       | 20      | 4               | Coming Soon    | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |      |         |         |         |              |     |     |
| 34                                                                                                                         | SKG10 : Practical of Well Testing, L2 (VILT)               | 2     | VILT       | MS Teams  | Coming Soon        | 1,960           | 5       | 20      | 5               | Coming Soon    |                                                 |     |     |     |     |      |         |         |         |              |     |     |
| 35                                                                                                                         | SKG10 : Practices of Reservoir Engineering, L2 (VILT)      | 2     | VILT       | MS Teams  | Yes                | 3,360           | 10      | 20      | 9               | Coming Soon    |                                                 |     |     |     |     |      | 8 - 18  |         | 17 - 27 |              |     |     |
| 36                                                                                                                         | SKG10 : RE for Non-RE, L2 (VILT)                           | 2     | VILT       | MS Teams  | Yes                | 1,430           | 5       | 20      | 3               | Coming Soon    |                                                 |     |     |     |     |      | 25 - 27 |         |         |              |     |     |
| 37                                                                                                                         | SKG10 : Reservoir Management & Surveillance, L2            | 2     | F2F (NR)   | KL        | Yes                | 3,220           | 10      | 20      | 5               | Coming Soon    |                                                 |     |     |     |     |      |         | 26 - 30 |         | 28/11 - 2/12 |     |     |
| 38                                                                                                                         | SKG10 : Rock Properties, L2 (VILT)                         | 2     | VILT       | MS Teams  | Coming Soon        | 1,790           | 5       | 20      | 5               | Coming Soon    | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |      |         |         |         |              |     |     |
| 39                                                                                                                         | SKG10 : Complex Fluid, L3 (VILT)                           | 3     | VILT       | MS Teams  | Coming Soon        | 1,610           | 5       | 20      | 3               | Coming Soon    |                                                 |     |     |     |     |      |         |         |         |              |     |     |
| 40                                                                                                                         | SKG10 : Gas Reservoir Engineering, L3 (VILT)               | 3     | VILT       | MS Teams  | Coming Soon        | 2,400           | 5       | 20      | 5               | Coming Soon    |                                                 |     |     |     |     |      |         |         |         | 14 - 18      |     |     |
| 41                                                                                                                         | SKG10 : Integrated Field Development Planning, L3 (VILT)   | 3     | VILT       | MS Teams  | Coming Soon        | 1,960           | 5       | 20      | 5               | Coming Soon    | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |      |         |         |         |              |     |     |
| 42                                                                                                                         | SKG10 : Reservoir Characterisation & Simulation, L3 (VILT) | 3     | VILT       | MS Teams  | Yes                | 2,140           | 5       | 20      | 5               | Coming Soon    |                                                 |     |     |     |     |      |         |         |         |              |     |     |
| 43                                                                                                                         | SKG10 : Secondary Recovery Process, L3 (VILT)              | 3     | VILT       | MS Teams  | Coming Soon        | 1,870           | 5       | 20      | 5               | Coming Soon    |                                                 |     |     |     |     |      |         |         |         | 19-23        |     |     |



## SKG11: Civil & Pipeline Engineering

| Programme Leader:<br>Muhammad Badiuzzaman Bin Rusli<br>+609-668 6289<br>+6019-341 7612<br><a href="mailto:mbadiuzzaman.rusli@petronas.com.my">mbadiuzzaman.rusli@petronas.com.my</a> |                                                                                                 |       |            |          |                    |                 |         |         |                 |                | 2022 |         |         |     |         |         |         |     |         |     |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------|------------|----------|--------------------|-----------------|---------|---------|-----------------|----------------|------|---------|---------|-----|---------|---------|---------|-----|---------|-----|-------|-------|
|                                                                                                                                                                                      |                                                                                                 | Level | Prog. Type | Venue    | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | Jan  | Feb     | Mac     | Apr | May     | June    | July    | Aug | Sept    | Oct | Nov   | Dec   |
| 1                                                                                                                                                                                    | SKG11 : CS1-1 Soil Investigation, L1 (VILT)                                                     | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      | 9       |         | 7   |         |         |         |     |         |     |       |       |
| 2                                                                                                                                                                                    | SKG11 : CS1-2 Project Feasibility Study, L1 (VILT) <span>UPDATED DATE</span>                    | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      | 10      |         |     |         |         |         |     |         | 6   |       |       |
| 3                                                                                                                                                                                    | SKG11 : CS1-3 Foundation Design, L1 (VILT)                                                      | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      | 16      |         |     | 12      |         |         |     |         |     |       |       |
| 4                                                                                                                                                                                    | SKG11 : CS1-4 Welding and Material Technology, L1 (VILT) <span>UPDATED DATE</span>              | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      | 17      |         |     |         |         |         |     |         | 4   |       |       |
| 5                                                                                                                                                                                    | SKG11 : CS1-6 Pipeline Engineering, L1 (VILT)                                                   | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      |         | 3       |     |         | 22      |         |     |         |     |       |       |
| 6                                                                                                                                                                                    | SKG11 : CS1-7 Construction Technology, L1 (VILT)                                                | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      |         | 10      |     |         | 23      |         |     |         |     |       |       |
| 7                                                                                                                                                                                    | SKG11 : CS1-8 Inspection & Maintenance, L1 (VILT)                                               | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      |         | 17      |     |         | 27      |         |     |         |     |       |       |
| 8                                                                                                                                                                                    | SKG11 : CS1-9 Metocean (VILT)                                                                   | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      |         | 2       |     |         | 28      |         |     |         |     |       |       |
| 9                                                                                                                                                                                    | SKG11 : CS1-10 Basic Training for Excavation Works Supervision (VILT) <span>UPDATED DATE</span> | 1     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      | 21 - 22 | 30 - 31 |     | 25 - 26 | 27 - 28 | 13-14   |     | 13 - 14 |     | 1 - 2 | 1 - 2 |
| 10                                                                                                                                                                                   | SKG11 : CS1-11 Structure Design – Offshore, L1 (VILT) <span>UPDATED DATE</span>                 | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      |         |         |     |         |         |         |     |         | 5   |       |       |
| 11                                                                                                                                                                                   | SKG11 : CS1-12 Structure Integrity - Offshore, L1 (VILT)                                        | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      |         |         |     |         | 20      |         |     |         |     |       |       |
| 12                                                                                                                                                                                   | SKG11 : CS1-13 Structure Design - Onshore, L1 (VILT)                                            | 1     | VILT       | MS Teams | Coming Soon        | 1,250           | 5       | 15      | 1               | Coming Soon    |      |         |         |     |         | 21      |         |     |         |     |       |       |
| 13                                                                                                                                                                                   | SKG11 : CS1-14 Structure Integrity - Onshore, L1 (VILT)                                         | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      |         |         |     |         | 22      |         |     |         |     |       |       |
| 14                                                                                                                                                                                   | SKG11 : CS1-15 Floating Structure, L1 (VILT)                                                    | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      |         |         |     |         | 23      |         |     |         |     |       |       |
| 15                                                                                                                                                                                   | SKG11 : CS2-1 Soil Investigation, L2 (VILT)                                                     | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |         |     |         | 27 - 28 |         |     |         |     |       |       |
| 16                                                                                                                                                                                   | SKG11 : CS2-2 Project Feasibility Study, L2 (VILT)                                              | 2     | VILT       | MS Teams | Coming Soon        | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |         |     |         | 29 - 30 |         |     |         |     |       |       |
| 17                                                                                                                                                                                   | SKG11 : CS2-3 Structure Design - Offshore, L2 (VILT)                                            | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |         |     |         |         | 6 - 7   |     |         |     |       |       |
| 18                                                                                                                                                                                   | SKG11 : CS2-4 Structure Integrity - Offshore, L2 (VILT)                                         | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |         |     |         |         | 20 - 21 |     |         |     |       |       |
| 19                                                                                                                                                                                   | SKG11 : CS2-5 Structure Design Onshore, L2 (VILT)                                               | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |         |     |         |         | 25 - 26 |     |         |     |       |       |
| 20                                                                                                                                                                                   | SKG11 : CS2-6 Structure Integrity Onshore, L2 (VILT)                                            | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |         |     |         |         | 27 - 28 |     |         |     |       |       |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

# SKG11: Civil & Pipeline Engineering

| Programme Leader:<br>Muhammad Badiuzzaman Bin Rusli<br>+609-668 6289<br>+6019-341 7612<br><a href="mailto:mbadiuzzaman.rusli@petronas.com.my">mbadiuzzaman.rusli@petronas.com.my</a> |                                                                                 |       |            |          |                    |                 |         |         |                 |                | 2022 |     |         |     |     |         |         |         |         |         |     |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------|------------|----------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|---------|-----|-----|---------|---------|---------|---------|---------|-----|-----|
|                                                                                                                                                                                      |                                                                                 | Level | Prog. Type | Venue    | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | Jan  | Feb | Mar     | Apr | May | June    | July    | Aug     | Sept    | Oct     | Nov | Dec |
| 21                                                                                                                                                                                   | SKG11 : CS2-7 Welding and Material Technology, L2 (VILT)                        | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     |         |     |     |         |         | 22-23   |         |         |     |     |
| 22                                                                                                                                                                                   | SKG11 : CS2-7 Welding and Material Technology, L2 <span>UPDATED DATE</span>     | 2     | F2F (NR)   | INSTEP   | Coming Soon        | 3,110           | 5       | 15      | 3               | Coming Soon    |      |     |         |     |     |         |         |         |         | 11-13   |     |     |
| 23                                                                                                                                                                                   | SKG11 : CS2-8 Construction Technology, L2 (VILT)                                | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     |         |     |     |         |         | 24 - 25 |         |         |     |     |
| 24                                                                                                                                                                                   | SKG11 : CS2-9 Foundation Design, L2 (VILT)                                      | 2     | VILT       | MS Teams | Coming Soon        | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     |         |     |     |         |         | 29 - 30 |         |         |     |     |
| 25                                                                                                                                                                                   | SKG11 : CS2-10 Inspection & Maintenance, L2 (VILT)                              | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     | 28 - 29 |     |     |         |         | 29 - 30 |         |         |     |     |
| 26                                                                                                                                                                                   | SKG11 : CS3-1 Infrastructure Design Onshore, L3 (VILT)                          | 3     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     |         |     |     |         |         |         |         | 3 - 4   |     |     |
| 27                                                                                                                                                                                   | SKG11 : CS3-2 Structural Design Onshore, L3 (VILT)                              | 3     | VILT       | MS Teams | Coming Soon        | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     |         |     |     |         |         |         |         | 5 - 6   |     |     |
| 28                                                                                                                                                                                   | SKG11 : CS3-3 Foundation Design Onshore, L3 (VILT)                              | 3     | VILT       | MS Teams | Coming Soon        | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     |         |     |     |         |         |         |         | 12 - 13 |     |     |
| 29                                                                                                                                                                                   | SKG11 : CS3-4 Construction Technology Onshore, L3 (VILT)                        | 3     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     |         |     |     |         |         |         |         | 17 - 18 |     |     |
| 30                                                                                                                                                                                   | SKG11 : CS3-5 Inspection & Maintenance Onshore, L3 (VILT)                       | 3     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     |         |     |     |         |         |         |         | 24 - 25 |     |     |
| 31                                                                                                                                                                                   | SKG11 : PL1-1 Theory of Pipeline and Codes & Standards L1 (VILT)                | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      | 8   |         | 6   |     |         |         |         |         |         |     |     |
| 32                                                                                                                                                                                   | SKG11 : PL1-2 Pipeline & Riser Design, L1 (VILT)                                | 1     | VILT       | MS Teams | Yes                | 1,250           | 5       | 15      | 1               | Coming Soon    |      | 15  |         |     |     |         |         |         |         |         |     |     |
| 33                                                                                                                                                                                   | SKG11 : PL1-3 Pipeline Integrity Core Technology, L1 (VILT)                     | 1     | VILT       | MS Teams | Coming Soon        | 2,080           | 5       | 15      | 3               | Coming Soon    |      |     |         |     |     |         |         |         | 27 - 29 |         |     |     |
| 34                                                                                                                                                                                   | SKG11 : PL2-1 Mechanical Design, L2 (VILT)                                      | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     | 30 - 31 |     |     |         |         |         |         |         |     |     |
| 35                                                                                                                                                                                   | SKG11 : PL2-2 Stress Design & Installation, L2 (VILT)                           | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     | 15 - 16 |     |     | 13 - 14 |         |         |         |         |     |     |
| 36                                                                                                                                                                                   | SKG11 : PL2-3 Line Pipe, Flexible and Corrosion Resistance Materials, L2 (VILT) | 2     | VILT       | MS Teams | Coming Soon        | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     |         |     |     |         | 13 - 14 |         |         |         |     |     |
| 37                                                                                                                                                                                   | SKG11 : PL2-4 Pipeline Construction & Pre-commissioning, L2 (VILT)              | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     |         |     |     |         | 4 - 5   |         |         |         |     |     |
| 38                                                                                                                                                                                   | SKG11 : PL2-5 Flow Assurance, L2 (VILT)                                         | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     | 23 - 24 |     |     |         | 15 - 16 |         |         |         |     |     |
| 39                                                                                                                                                                                   | SKG11 : PL2-6 Riser Engineering, L2 (VILT)                                      | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |     |         |     |     |         | 18 - 19 |         |         |         |     |     |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes



## SKG11: Civil & Pipeline Engineering

| Programme Leader:<br>Muhammad Badiuzzaman Bin Rusli<br>+609-668 6289<br>+6019-341 7612<br><a href="mailto:mbadiuzzaman.rusli@petronas.com.my">mbadiuzzaman.rusli@petronas.com.my</a> |                                                                                      |       |            |          |                    |                 |         |         |                 |                | 2022 |         |       |     |         |         |      |         |         |     |     |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------|------------|----------|--------------------|-----------------|---------|---------|-----------------|----------------|------|---------|-------|-----|---------|---------|------|---------|---------|-----|-----|-----|
|                                                                                                                                                                                      |                                                                                      | Level | Prog. Type | Venue    | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | Jan  | Feb     | Mar   | Apr | May     | June    | July | Aug     | Sept    | Oct | Nov | Dec |
| 40                                                                                                                                                                                   | SKG11 : PL2-7 Onshore Pipeline Design, L2 (VILT)                                     | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         | 21-22 |     |         | 20 - 21 |      |         |         |     |     |     |
| 41                                                                                                                                                                                   | SKG11 : PL2-8 Pipeline Integrity Core Technology, L2 (VILT)                          | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 3               | Coming Soon    |      | 22 - 24 |       |     |         | 7 - 9   |      |         |         |     |     |     |
| 42                                                                                                                                                                                   | SKG11 : PL2-10 Pipeline Coating & Lining, L2 (VILT)                                  | 2     | VILT       | MS Teams | Coming Soon        | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     | 25 - 26 |         |      |         |         |     |     |     |
| 43                                                                                                                                                                                   | SKG11 : PL2-11 Cathodic Protection Design, L2 (VILT)                                 | 2     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     | 23 - 24 |         |      |         |         |     |     |     |
| 44                                                                                                                                                                                   | SKG11 : PL2-12 Pipeline Life Extension, L2 (VILT)                                    | 2     | VILT       | MS Teams | Coming Soon        | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     | 30 - 31 |         |      |         | 7-8     |     |     |     |
| 45                                                                                                                                                                                   | SKG11 : PL3-1 HP/HT Pipeline & Risers, L3 (VILT)                                     | 3     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     |         |         |      | 3 - 4   |         |     |     |     |
| 46                                                                                                                                                                                   | SKG11 : PL3-2 Deep & Ultradeep Pipeline & Riser, L3 (VILT)                           | 3     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     |         |         |      | 8 - 9   |         |     |     |     |
| 47                                                                                                                                                                                   | SKG11 : PL3-3 Advanced Engineering Analysis, L3 (VILT)                               | 3     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     |         |         |      | 10 - 11 |         |     |     |     |
| 48                                                                                                                                                                                   | SKG11 : PL3-4 Geo-Hazards & ROW Design, L3 (VILT)                                    | 3     | VILT       | MS Teams | Coming Soon        | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     |         |         |      | 15 - 16 |         |     |     |     |
| 49                                                                                                                                                                                   | SKG11 : PL3-5 Advanced Pipeline & Riser Material, L3 (VILT)                          | 3     | VILT       | MS Teams | Coming Soon        | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     |         |         |      | 17 - 18 |         |     |     |     |
| 50                                                                                                                                                                                   | SKG11 : PL3-6 Advanced Pipeline Repair, L3 (VILT)                                    | 3     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     |         | 1 - 2   |      |         |         |     |     |     |
| 51                                                                                                                                                                                   | SKG11 : PL3-7 Arctic Pipelines, L3 (VILT)                                            | 3     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     |         |         |      |         | 5 - 6   |     |     |     |
| 52                                                                                                                                                                                   | SKG11 : PL3-8 Advanced Risk Based Inspection, L3 (VILT)                              | 3     | VILT       | MS Teams | Coming Soon        | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     |         | 8 - 9   |      |         |         |     |     |     |
| 53                                                                                                                                                                                   | SKG11 : PL3-9 Advanced Fitness for Service Assessments, L3 (VILT)                    | 3     | VILT       | MS Teams | Yes                | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     |         | 15 - 16 |      |         |         |     |     |     |
| 54                                                                                                                                                                                   | SKG11 : PL3-10 Deepwater Pipeline/ Riser Inspection, Maintenance & Repair, L3 (VILT) | 3     | VILT       | MS Teams | Coming Soon        | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     |         | 13 - 14 |      |         |         |     |     |     |
| 55                                                                                                                                                                                   | SKG11 : PL3-11 Deepwater & Flexible Pipeline/ Riser Design, L3 (VILT)                | 3     | VILT       | MS Teams | Coming Soon        | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     |         |         |      |         | 7 - 8   |     |     |     |
| 56                                                                                                                                                                                   | SKG11 : PL3-12 Limit State Design - Onshore, L3 (VILT)                               | 3     | VILT       | MS Teams | Coming Soon        | 1,540           | 5       | 15      | 2               | Coming Soon    |      |         |       |     |         |         |      |         | 12 - 13 |     |     |     |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

# SKG12: Mechanical Engineering

| Programme Leader:<br>M Nazmi Mizan<br>+609-668 6322<br>+6017-909 6972<br>mnazmi.mizan@petronas.com.my |                                                                      |   |          |          | Level       | Prog. Type | Venue | HRD Corp Claimable | Course Fee (RM) | Min Pax     | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |       |     |       |       |       |      |     |      |     |     |     |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---|----------|----------|-------------|------------|-------|--------------------|-----------------|-------------|---------|-----------------|----------------|------|-------|-----|-------|-------|-------|------|-----|------|-----|-----|-----|
|                                                                                                       |                                                                      |   |          |          |             |            |       |                    |                 |             |         |                 |                | Jan  | Feb   | Mac | Apr   | May   | June  | July | Aug | Sept | Oct | Nov | Dec |
| SKG12.1 Rotating Equipment                                                                            |                                                                      |   |          |          |             |            |       |                    |                 |             |         |                 |                |      |       |     |       |       |       |      |     |      |     |     |     |
| 1                                                                                                     | SKG12.1 : HSEMS & MCF, L1                                            | 1 | F2F (NR) | KL       | Coming Soon | 2,650      | 8     | 20                 | 2               | Coming Soon |         |                 |                |      |       |     | 18-19 |       |       |      |     |      |     |     |     |
| 2                                                                                                     | SKG12.1 : Condition Monitoring of Rotating Equipment, L2             | 2 | F2F (NR) | KL       | Coming Soon | 3,290      | 8     | 20                 | 3               | Coming Soon |         |                 | 14-16          |      |       |     |       |       |       |      |     |      |     |     |     |
| 3                                                                                                     | SKG12.1 : DOMI of Compressors & Blowers, L2                          | 2 | F2F (NR) | KL       | Yes         | 3,290      | 10    | 20                 | 3               | Coming Soon |         |                 |                |      |       |     |       |       | 17-19 |      |     |      |     |     |     |
| 4                                                                                                     | SKG12.1 : DOMI of Compressors & Blowers, L2 (VILT)                   | 2 | VILT     | MS Teams | Coming Soon | 2,270      | 10    | 15                 | 3               | Coming Soon |         | 21-23           |                |      |       |     |       |       |       |      |     |      |     |     |     |
| 5                                                                                                     | SKG12.1 : DOMI of Gas Turbines, L2 (VILT)                            | 2 | VILT     | MS Teams | Coming Soon | 2,270      | 10    | 15                 | 3               | Coming Soon |         |                 | 7-9            |      |       |     |       |       |       |      |     |      |     |     |     |
| 6                                                                                                     | SKG12.1 : DOMI of ICE, Steam Turbines and Turbo Expander, L2 (VILT)  | 2 | VILT     | MS Teams | Coming Soon | 2,920      | 10    | 15                 | 4               | Coming Soon |         |                 |                |      | 13-16 |     |       |       |       |      |     |      |     |     |     |
| 7                                                                                                     | SKG12.1 : DOMI of Pumps, L2 (VILT)                                   | 2 | VILT     | MS Teams | Coming Soon | 2,270      | 10    | 15                 | 3               | Coming Soon |         |                 |                |      |       | 4-6 |       |       |       |      |     |      |     |     |     |
| 8                                                                                                     | SKG12.1 : Machinery Control, Monitoring & Protection, L2             | 2 | F2F (NR) | KL       | Coming Soon | 2,650      | 10    | 20                 | 2               | Coming Soon |         |                 |                |      | 20-21 |     |       |       |       |      |     |      |     |     |     |
| 9                                                                                                     | SKG12.1 : Machinery Vibration Analysis, L2                           | 2 | F2F (NR) | KL       | Coming Soon | 4,150      | 10    | 20                 | 4               | Coming Soon |         |                 |                |      | 13-16 |     |       |       |       |      |     |      |     |     |     |
| 10                                                                                                    | SKG12.1 : Operational Performance, L2                                | 2 | F2F (NR) | KL       | Coming Soon | 4,540      | 8     | 20                 | 4               | Coming Soon |         |                 |                |      |       |     | 22-25 |       |       |      |     |      |     |     |     |
| 11                                                                                                    | SKG12.1 : Driven Equipment Workshop, L3                              | 3 | F2F (NR) | KL       | Coming Soon | 4,150      | 10    | 20                 | 4               | Coming Soon |         |                 |                |      |       |     |       | 12-15 |       |      |     |      |     |     |     |
| 12                                                                                                    | SKG12.1 : Driver Equipment Workshop, L3                              | 3 | F2F (NR) | KL       | Coming Soon | 4,150      | 10    | 20                 | 4               | Coming Soon |         |                 |                |      |       |     |       |       |       | 7-10 |     |      |     |     |     |
| 13                                                                                                    | SKG12.1 : Intro of New Technology; Subsea & New Equipment Design, L3 | 3 | F2F (NR) | KL       | Coming Soon | 3,330      | 10    | 20                 | 2               | Coming Soon |         |                 |                |      |       |     |       |       |       |      | 5-6 |      |     |     |     |
| SKG12.2 Static Fired/Unfired/Piping                                                                   |                                                                      |   |          |          |             |            |       |                    |                 |             |         |                 |                |      |       |     |       |       |       |      |     |      |     |     |     |
| 14                                                                                                    | SKG12.2 : DOMI of Static Equipment, L1 (VILT)                        | 1 | VILT     | MS Teams | Yes         | 2,890      | 10    | 15                 | 4               | Coming Soon |         | 21-24           |                |      |       |     |       |       |       |      |     |      |     |     |     |
| 15                                                                                                    | SKG12.2 : Introduction to Piping System, L1 (VILT)                   | 1 | VILT     | MS Teams | Yes         | 2,170      | 8     | 15                 | 2               | Coming Soon |         |                 |                |      |       | 8-9 |       |       |       |      |     |      |     |     |     |
| 16                                                                                                    | SKG12.2 : Basic Design & Fabrication of Static (Unfired), L2         | 2 | F2F (NR) | KL       | Coming Soon | 4,150      | 10    | 20                 | 4               | Coming Soon |         |                 |                |      |       |     |       | 12-15 |       |      |     |      |     |     |     |
| 17                                                                                                    | SKG12.2 : DOMI of Heat Exchanger, L2                                 | 2 | F2F (NR) | KL       | Coming Soon | 4,150      | 10    | 20                 | 4               | Coming Soon |         |                 |                |      |       |     | 22-25 |       |       |      |     |      |     |     |     |
| 18                                                                                                    | SKG12.2 : DOMI of Piping System and Valves, L2                       | 2 | F2F (NR) | KL       | Coming Soon | 4,150      | 10    | 20                 | 4               | Coming Soon |         |                 |                |      |       |     |       |       |       | 7-10 |     |      |     |     |     |



# SKG12: Mechanical Engineering

| Programme Leader:<br>M Nazmi Mizan<br>+609-668 6322<br>+6017-909 6972<br>mnazmi.mizan@petronas.com.my |                                                                                 |   |          |             | Level       | Prog. Type | Venue | HRD Corp Claimable | Course Fee (RM) | Min Pax     | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |       |            |       |       |       |      |     |      |     |     |     |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---|----------|-------------|-------------|------------|-------|--------------------|-----------------|-------------|---------|-----------------|----------------|------|-------|------------|-------|-------|-------|------|-----|------|-----|-----|-----|
|                                                                                                       |                                                                                 |   |          |             |             |            |       |                    |                 |             |         |                 |                | Jan  | Feb   | Mac        | Apr   | May   | June  | July | Aug | Sept | Oct | Nov | Dec |
| SKG12.2 Static Fired/Unfired/Piping                                                                   |                                                                                 |   |          |             |             |            |       |                    |                 |             |         |                 |                |      |       |            |       |       |       |      |     |      |     |     |     |
| 19                                                                                                    | SKG12.2 : DOMI of Static (Fired) Equipment, L2                                  | 2 | F2F (NR) | KL          | Coming Soon | 4,150      | 10    | 20                 | 4               | Coming Soon |         |                 |                |      |       | 27-30      |       |       |       |      |     |      |     |     |     |
| 20                                                                                                    | SKG12.2 : Lifting Equipment, L2                                                 | 2 | F2F (NR) | KL          | Coming Soon | 2,710      | 10    | 20                 | 2               | Coming Soon |         |                 |                |      |       | 18-19      |       |       |       |      |     |      |     |     |     |
| 21                                                                                                    | SKG12.2 : Mechanical Equipment Maintenance, L2                                  | 2 | F2F (NR) | KL          | Coming Soon | 2,940      | 8     | 20                 | 2               | Coming Soon |         |                 |                |      |       |            |       |       | 10-11 |      |     |      |     |     |     |
| 22                                                                                                    | SKG12.2 : API 510 Pressure Vessel Inspection, L3 (VILT)                         | 3 | VILT     | IPVideoTalk | Coming Soon | 8,010      | 5     | 15                 | 5               | Coming Soon |         |                 |                |      |       |            |       |       |       | 7-11 |     |      |     |     |     |
| 23                                                                                                    | SKG12.2 : API 570 Piping Inspection, L3 (VILT)                                  | 3 | VILT     | IPVideoTalk | Coming Soon | 8,010      | 5     | 15                 | 5               | Coming Soon |         |                 |                |      |       | 27/6 - 1/7 |       |       |       |      |     |      |     |     |     |
| 24                                                                                                    | SKG12.2 : API 653 Tank Inspection, Repair, Alteration & Construction, L3 (VILT) | 3 | VILT     | IPVideoTalk | Coming Soon | 8,010      | 5     | 15                 | 5               | Coming Soon |         |                 |                |      |       |            |       |       |       |      | 5-9 |      |     |     |     |
| 25                                                                                                    | SKG12.2 : ASME I Power Boiler, L3 (VILT)                                        | 3 | VILT     | IPVideoTalk | Coming Soon | 7,080      | 3     | 15                 | 3               | Coming Soon |         |                 |                |      | 18-20 |            |       |       |       |      |     |      |     |     |     |
| 26                                                                                                    | SKG12.2 : ASME VIII Div.1 & 2, L3 (VILT)                                        | 3 | VILT     | IPVideoTalk | Coming Soon | 8,010      | 3     | 15                 | 5               | Coming Soon |         |                 |                |      |       |            |       | 19-23 |       |      |     |      |     |     |     |
| 27                                                                                                    | SKG12.2 : Asset Life Assessment, L3                                             | 3 | F2F (NR) | KL          | Coming Soon | 4,150      | 10    | 20                 | 4               | Coming Soon |         |                 |                |      |       |            |       | 26-29 |       |      |     |      |     |     |     |
| 28                                                                                                    | SKG12.2 : B31.3 Process Piping, L3 (VILT)                                       | 3 | VILT     | IPVideoTalk | Coming Soon | 8,010      | 5     | 15                 | 5               | Coming Soon |         |                 |                |      |       |            | 1-5   |       |       |      |     |      |     |     |     |
| 29                                                                                                    | SKG12.2 : Boiler and Steam Technology, L3                                       | 3 | F2F (NR) | KL          | Coming Soon | 3,990      | 10    | 20                 | 3               | Coming Soon |         |                 |                |      | 16-18 |            |       |       |       |      |     |      |     |     |     |
| 30                                                                                                    | SKG12.2 : Stress and Thermal Analysis, L3                                       | 3 | F2F (NR) | KL          | Coming Soon | 3,330      | 8     | 20                 | 2               | Coming Soon |         |                 |                |      |       |            |       |       |       | 1-2  |     |      |     |     |     |
| SKG12.3 Reliability                                                                                   |                                                                                 |   |          |             |             |            |       |                    |                 |             |         |                 |                |      |       |            |       |       |       |      |     |      |     |     |     |
| 31                                                                                                    | SKG12.3 : Benchmarking, L2                                                      | 2 | F2F (NR) | KL          | Coming Soon | 3,390      | 10    | 20                 | 3               | Coming Soon |         |                 |                |      |       |            |       | 22-24 |       |      |     |      |     |     |     |
| 32                                                                                                    | SKG12.3 : Data Acquisition, Validation & Decision Analysis, L2                  | 2 | F2F (NR) | KL          | Coming Soon | 4,540      | 10    | 20                 | 4               | Coming Soon |         |                 |                |      |       |            | 18-21 |       |       |      |     |      |     |     |     |
| 33                                                                                                    | SKG12.3 : Dependability, L2 (VILT)                                              | 2 | VILT     | MS Teams    | Coming Soon | 3,230      | 10    | 15                 | 4               | Coming Soon |         |                 |                |      |       |            | 4-7   |       |       |      |     |      |     |     |     |
| 34                                                                                                    | SKG12.3 : Equipment Reliability Strategy Part 1, L2                             | 2 | F2F (NR) | KL          | Coming Soon | 3,660      | 10    | 20                 | 3               | Coming Soon |         |                 |                |      |       |            | 1-3   |       |       |      |     |      |     |     |     |
| 35                                                                                                    | SKG12.3 : Equipment Reliability Strategy Part 2, L2                             | 2 | F2F (NR) | KL          | Coming Soon | 3,660      | 10    | 20                 | 3               | Coming Soon |         |                 |                |      |       |            |       |       |       | 7-9  |     |      |     |     |     |
| 36                                                                                                    | SKG12.3 : Predictive Maintenance Technique Part 1, L2                           | 2 | F2F (NR) | KL          | Coming Soon | 2,710      | 10    | 20                 | 2               | Coming Soon |         |                 |                |      |       |            |       | 19-20 |       |      |     |      |     |     |     |
| 37                                                                                                    | SKG12.3 : Predictive Maintenance Technique Part 2, L2                           | 2 | F2F (NR) | KL          | Coming Soon | 3,660      | 10    | 20                 | 3               | Coming Soon |         |                 |                |      |       |            |       |       |       |      | 5-7 |      |     |     |     |

# SKG12: Mechanical Engineering

| Programme Leader:<br>M Nazmi Mizan<br>+609-668 6322<br>+6017-909 6972<br>mnazmi.mizan@petronas.com.my |                                                                                                                   | Level | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |     |       |       |       |       |     |       |       |      |     |  |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-----|-------|-------|-------|-------|-----|-------|-------|------|-----|--|
|                                                                                                       |                                                                                                                   |       |            |                                                               |                    |                 |         |         |                 |                | Jan  | Feb | Mac | Apr   | May   | June  | July  | Aug | Sept  | Oct   | Nov  | Dec |  |
| SKG12.3 Reliability                                                                                   |                                                                                                                   |       |            |                                                               |                    |                 |         |         |                 |                |      |     |     |       |       |       |       |     |       |       |      |     |  |
| 38                                                                                                    | SKG12.3 : Reliability and Maintainability Engineering Part 1, L2                                                  | 2     | F2F (NR)   | KL                                                            | Coming Soon        | 4,700           | 10      | 20      | 4               | Coming Soon    |      |     |     |       |       |       | 8-11  |     |       |       |      |     |  |
| 39                                                                                                    | SKG12.3 : Reliability and Maintainability Engineering Part 2, L2                                                  | 2     | F2F (NR)   | KL                                                            | Coming Soon        | 4,700           | 10      | 20      | 4               | Coming Soon    |      |     |     |       |       |       |       |     | 10-13 |       |      |     |  |
| 40                                                                                                    | SKG12.3 : Root Cause Failure Analysis, L2                                                                         | 2     | F2F (NR)   | KL                                                            | Coming Soon        | 3,700           | 10      | 20      | 3               | Coming Soon    |      |     |     |       |       | 20-22 |       |     |       | 10-12 |      |     |  |
| 41                                                                                                    | SKG12.3 : Asset Life Cycle Cost, L3 <div>UPDATED DATE</div>                                                       | 3     | F2F (NR)   | KL                                                            | Coming Soon        | 4,700           | 10      | 20      | 4               | Coming Soon    |      |     |     |       | 17-20 |       |       |     |       |       |      |     |  |
| 42                                                                                                    | SKG12.3 : Expert Level Asset Management, L3 (VILT)                                                                | 3     | VILT       | MS Teams                                                      | Coming Soon        | 2,390           | 5       | 15      | 4               | Coming Soon    |      |     |     |       |       |       | 8-11  |     |       |       |      |     |  |
| 43                                                                                                    | SKG12.3 : Expert Level Business Warehouse 7, L3 (VILT)                                                            | 3     | VILT       | MS Teams                                                      | Coming Soon        | 1,920           | 5       | 15      | 3               | Coming Soon    |      |     |     | 25-27 |       | 20-22 |       |     |       | 17-19 |      |     |  |
| 44                                                                                                    | SKG12.3 : Expert Level Work Management, L3 (VILT)                                                                 | 3     | VILT       | MS Teams                                                      | Coming Soon        | 2,850           | 5       | 15      | 5               | Coming Soon    |      |     |     |       | 23-27 |       |       |     | 19-23 |       | 7-11 |     |  |
| SKG12.5 Subsea                                                                                        |                                                                                                                   |       |            |                                                               |                    |                 |         |         |                 |                |      |     |     |       |       |       |       |     |       |       |      |     |  |
| 45                                                                                                    | SKG12.5 : Introduction To Subsea Engineering, L1 <div>NEW PROGRAMME</div>                                         | 1     | F2F (NR)   | INSTEP                                                        | Coming Soon        | 3,250           | 10      | 20      | 3               | Coming Soon    |      |     |     |       |       |       | 18-20 |     |       |       |      |     |  |
| 46                                                                                                    | SKG12.5 : Subsea Operational Performance Maintenance & Sparing, L2 <div>UPDATED FEE</div> <div>UPDATED DATE</div> | 2     | F2F (NR)   | INSTEP                                                        | Coming Soon        | 3,250           | 10      | 20      | 3               | Coming Soon    |      |     |     |       |       |       |       |     |       | 17-19 |      |     |  |
| 47                                                                                                    | SKG12.5 : Subsea Xmas Tree and Wellhead, L2 <div>UPDATED FEE</div>                                                | 2     | F2F (NR)   | INSTEP                                                        | Coming Soon        | 3,250           | 10      | 20      | 3               | Coming Soon    |      |     |     |       |       |       |       |     | 5-7   |       |      |     |  |
| 48                                                                                                    | SKG12.5 : Intervention of Subsea Equipment, L2 <div>UPDATED FEE</div>                                             | 2     | F2F (NR)   | INSTEP                                                        | Coming Soon        | 3,250           | 10      | 20      | 3               | Coming Soon    |      |     |     |       |       |       |       |     |       |       |      | 5-7 |  |
| SKG12.6 R&D Mechatronics                                                                              |                                                                                                                   |       |            |                                                               |                    |                 |         |         |                 |                |      |     |     |       |       |       |       |     |       |       |      |     |  |
| 49                                                                                                    | SKG12.6 : Professional Drone Operator                                                                             | N/A   | F2F (NR)   | INSTEP*                                                       | Yes                | 6,110           | 6       | 12      | 3               | Coming Soon    |      |     |     |       |       | 13-15 |       |     |       |       |      |     |  |



# SKG13: Electrical Engineering

| Programme Leader:<br>Muhammad Badiuzzaman Bin Rusli<br>+609-668 6289<br>+6019-341 7612<br><a href="mailto:mbadiuzzaman.rusli@petronas.com.my">mbadiuzzaman.rusli@petronas.com.my</a> |                                                                 |       |            |                                                                           |                       |                    |            |            |                    |                   | 2022 |         |         |     |         |         |         |         |         |         |             |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------|------------|---------------------------------------------------------------------------|-----------------------|--------------------|------------|------------|--------------------|-------------------|------|---------|---------|-----|---------|---------|---------|---------|---------|---------|-------------|-----|
|                                                                                                                                                                                      |                                                                 | Level | Prog. Type | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | HRD Corp<br>Claimable | Course<br>Fee (RM) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | MBOT CPD<br>Hours | Jan  | Feb     | Mar     | Apr | May     | June    | July    | Aug     | Sept    | Oct     | Nov         | Dec |
| 1                                                                                                                                                                                    | SKG13 : Distribution Equipment (VILT)                           | 1     | VILT       | MS Teams                                                                  | Yes                   | 2,070              | 5          | 15         | 3                  | Coming Soon       |      | 8 - 10  |         |     | 17 - 19 |         |         | 9 - 11  |         |         |             |     |
| 2                                                                                                                                                                                    | SKG13 : Electric Motor and Drive (VILT)                         | 1     | VILT       | MS Teams                                                                  | Coming Soon           | 2,070              | 5          | 15         | 3                  | Coming Soon       |      | 22 - 24 |         |     |         |         |         | 23 - 25 |         |         |             |     |
| 3                                                                                                                                                                                    | SKG13 : EMC, LPS and Earthing (VILT)                            | 1     | VILT       | MS Teams                                                                  | Yes                   | 2,070              | 5          | 15         | 3                  | Coming Soon       |      |         | 8 - 10  |     | 24 - 26 |         |         |         | 6 - 8   |         |             |     |
| 4                                                                                                                                                                                    | SKG13 : Generating Equipment & System (VILT)                    | 1     | VILT       | MS Teams                                                                  | Coming Soon           | 2,030              | 5          | 15         | 2                  | Coming Soon       |      |         |         |     | 25 - 26 |         |         |         | 21 - 22 |         |             |     |
| 5                                                                                                                                                                                    | SKG13 : Protection Device and System (VILT)                     | 1     | VILT       | MS Teams                                                                  | Coming Soon           | 2,070              | 5          | 15         | 3                  | Coming Soon       |      |         | 22 - 24 |     |         |         |         | 16 - 18 |         |         |             |     |
| 6                                                                                                                                                                                    | SKG13 : Ex Equipment (PEXCom# 01) (VILT)                        | 1     | VILT       | MS Teams                                                                  | Yes                   | 1,490              | 5          | 15         | 2                  | Coming Soon       |      |         | 30 - 31 |     |         | 29 - 30 |         |         | 28 - 29 |         |             |     |
| 7                                                                                                                                                                                    | SKG13 : Distribution Equipment (VILT)                           | 2     | VILT       | MS Teams                                                                  | Yes                   | 3,620              | 5          | 15         | 5                  | Coming Soon       |      |         |         |     |         |         | 25 - 29 |         |         |         |             |     |
| 8                                                                                                                                                                                    | SKG13 : Electric Motor and Drive                                | 2     | F2F (NR)   | Kerteh                                                                    | Yes                   | 7,160              | 10         | 15         | 4                  | Coming Soon       |      |         |         |     |         |         |         |         |         | 3 - 6   |             |     |
| 9                                                                                                                                                                                    | SKG13 : EMC, LPS and Earthing (VILT)                            | 2     | VILT       | MS Teams                                                                  | Yes                   | 6,690              | 8          | 15         | 4                  | Coming Soon       |      |         |         |     |         |         |         |         | 12 - 15 |         |             |     |
| 10                                                                                                                                                                                   | SKG13 : Ex Equipment (PEXCom# 03)                               | 2     | F2F (NR)   | INSTEP*                                                                   | Yes                   | 6,160              | 10         | 15         | 4                  | Coming Soon       |      |         |         |     |         |         |         |         |         | 17 - 20 |             |     |
| 11                                                                                                                                                                                   | SKG13 : Generating Equipment & System (VILT)                    | 2     | VILT       | MS Teams                                                                  | Coming Soon           | 5,010              | 5          | 15         | 3                  | Coming Soon       |      |         |         |     |         |         | 19 - 21 |         |         |         |             |     |
| 12                                                                                                                                                                                   | SKG13 : Generating Equipment & System <span>UPDATED DATE</span> | 2     | F2F (NR)   | Johor Bahru                                                               | Coming Soon           | 5,630              | 10         | 20         | 4                  | Coming Soon       |      |         |         |     |         |         |         |         |         | 7-10    |             |     |
| 13                                                                                                                                                                                   | SKG13 : Protection Device and System (VILT)                     | 2     | VILT       | MS Teams                                                                  | Coming Soon           | 3,300              | 5          | 15         | 5                  | Coming Soon       |      |         |         |     |         |         | 4 - 8   |         |         |         |             |     |
| 14                                                                                                                                                                                   | SKG13 : Condition Monitoring and Predictive Analysis            | 1&2   | F2F (NR)   | INSTEP*                                                                   | Coming Soon           | 5,550              | 10         | 15         | 4                  | Coming Soon       |      |         |         |     |         |         |         |         |         | 24 - 27 |             |     |
| 15                                                                                                                                                                                   | SKG13 : Electrical Engineering Design & ELSOR (VILT)            | 1&2   | VILT       | MS Teams                                                                  | Yes                   | 2,030              | 5          | 15         | 3                  | Coming Soon       |      |         |         |     |         | 21 - 23 |         |         |         |         |             |     |
| 16                                                                                                                                                                                   | SKG13 : Electrical Network Automation                           | 1&2   | F2F (NR)   | Melaka                                                                    | Yes                   | 3,690              | 10         | 15         | 3                  | Coming Soon       |      |         |         |     |         |         |         |         |         |         | 15 - 17     |     |
| 17                                                                                                                                                                                   | SKG13 : Electrical Safety and Regulations (VILT)                | 1&2   | VILT       | MS Teams                                                                  | Yes                   | 2,070              | 5          | 15         | 3                  | Coming Soon       |      | 15 - 17 |         |     |         |         |         | 2 - 4   |         |         |             |     |
| 18                                                                                                                                                                                   | SKG13 : Green Energy <span>UPDATED DATE</span>                  | 1&2   | F2F (NR)   | UTP                                                                       | Yes                   | 5,150              | 8          | 15         | 3                  | Coming Soon       |      |         |         |     |         |         |         |         |         | 18-20   | 29/11 -1/12 |     |
| 19                                                                                                                                                                                   | SKG13 : Power Quality (VILT)                                    | 1&2   | VILT       | MS Teams                                                                  | Yes                   | 2,030              | 5          | 15         | 3                  | Coming Soon       |      |         |         |     |         | 7 - 9   |         |         |         |         |             |     |
| 20                                                                                                                                                                                   | SKG13 : Power System Studies (VILT) <span>UPDATED DATE</span>   | 1&2   | VILT       | MS Teams                                                                  | Yes                   | 4,630              | 5          | 15         | 4                  | Coming Soon       |      |         |         |     |         |         |         |         | 5-8     |         |             |     |
| 21                                                                                                                                                                                   | SKG13 : Uninterruptible Power Supply System                     | 1&2   | F2F (NR)   | Shah Alam                                                                 | Coming Soon           | 6,870              | 8          | 15         | 4                  | Coming Soon       |      |         |         |     |         |         |         |         |         |         | 21 - 24     |     |

## SKG14: Instrumentation & Control

| Programme Leader:<br>M Nazmi Mizan<br>+609-668 6322<br>+6017-909 6972<br>mnazmi.mizan@petronas.com.my |                                                                | Level | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |       |     |     |       |       |       |       |       |      |       |     |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-------|-----|-----|-------|-------|-------|-------|-------|------|-------|-----|
|                                                                                                       |                                                                |       |            |                                                               |                    |                 |         |         |                 |                | Jan  | Feb   | Mar | Apr | May   | June  | July  | Aug   | Sept  | Oct  | Nov   | Dec |
| 1                                                                                                     | SKG14 : IC1.1 Flow, Level, Pressure & Temperature, L1&2        | 1&2   | F2F (NR)   | KL                                                            | Coming Soon        | 5,170           | 10      | 20      | 5               | Coming Soon    |      |       |     |     |       |       |       |       | 26-30 |      |       |     |
| 2                                                                                                     | SKG14 : IC1.1 Flow, Level, Pressure & Temperature, L1&2 (VILT) | 1&2   | VILT       | MS Teams                                                      | Yes                | 3,810           | 8       | 20      | 5               | Coming Soon    |      | 21-25 |     |     |       |       |       |       |       |      |       |     |
| 3                                                                                                     | SKG14 : IC1.2 Liquid and Gas Metering, L1&2                    | 1&2   | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 4,820           | 8       | 15      | 5               | Coming Soon    |      |       |     |     |       | 13-17 |       |       |       |      |       |     |
| 4                                                                                                     | SKG14 : IC1.3 Quality Measurement, L1&2                        | 1&2   | F2F (NR)   | KL                                                            | Coming Soon        | 4,700           | 8       | 20      | 4               | Coming Soon    |      |       |     |     |       |       | 18-21 |       |       |      |       |     |
| 5                                                                                                     | SKG14 : IC2 Control Theory and Application, L1&2 (VILT)        | 1&2   | VILT       | MS Teams                                                      | Yes                | 3,450           | 8       | 20      | 4               | Coming Soon    |      |       |     |     |       |       | 18-21 |       |       |      |       |     |
| 6                                                                                                     | SKG14 : IC3 Instrument Engineering Design, L1&2 (VILT)         | 1&2   | VILT       | MS Teams                                                      | Coming Soon        | 3,450           | 8       | 20      | 4               | Coming Soon    |      |       |     |     |       |       |       | 22-25 |       |      |       |     |
| 7                                                                                                     | SKG14 : IC4 Process Computer System, L1&2                      | 1&2   | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 4,640           | 8       | 15      | 4               | Coming Soon    |      |       |     |     |       |       |       |       | 12-15 |      |       |     |
| 8                                                                                                     | SKG14 : IC5 Instrumented Safeguarding System, L1&2 (VILT)      | 1&2   | VILT       | MS Teams                                                      | Coming Soon        | 3,450           | 8       | 20      | 4               | Coming Soon    |      |       |     |     |       | 20-23 |       |       |       |      |       |     |
| 9                                                                                                     | SKG14 : IC6 Control Valve, L1&2                                | 1&2   | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 4,820           | 8       | 15      | 5               | Coming Soon    |      |       |     |     | 23-27 |       |       |       |       |      |       |     |
| 10                                                                                                    | SKG14 : IC1.2 Liquid and Gas Metering, L3                      | 3     | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 4,820           | 8       | 15      | 5               | Coming Soon    |      |       |     |     |       |       | 15-19 |       |       |      |       |     |
| 11                                                                                                    | SKG14 : IC1.3 Quality Measurement, L3                          | 3     | F2F (NR)   | KL                                                            | Coming Soon        | 5,050           | 8       | 20      | 4               | Coming Soon    |      |       |     |     |       |       |       |       | 10-13 |      |       |     |
| 12                                                                                                    | SKG14 : IC2 Control Theory and Application, L3                 | 3     | F2F (NR)   | KL                                                            | Yes                | 5,050           | 8       | 20      | 4               | Coming Soon    |      |       |     |     |       |       |       |       |       | 7-10 |       |     |
| 13                                                                                                    | SKG14 : IC3 Instrument Engineering Design, L3                  | 3     | F2F (NR)   | KL                                                            | Coming Soon        | 5,460           | 10      | 20      | 5               | Coming Soon    |      |       |     |     |       |       |       |       |       |      | 5-9   |     |
| 14                                                                                                    | SKG14 : IC4 Process Computer System, L3                        | 3     | F2F (NR)   | KL                                                            | Coming Soon        | 5,050           | 8       | 20      | 4               | Coming Soon    |      |       |     |     |       |       |       |       |       |      | 21-24 |     |
| 15                                                                                                    | SKG14 : IC5 Instrumented Safeguarding System, L3               | 3     | F2F (NR)   | KL                                                            | Coming Soon        | 5,020           | 10      | 20      | 4               | Coming Soon    |      |       |     |     |       |       |       |       | 24-27 |      |       |     |



# SKG15: Materials, Corrosion & Inspection Engineering

| Programme Leader:<br>M Naim Abu<br>+6013-574 9697<br>mnaim.abu@petronas.com.my |                                                                                              |              | Level | Prog. Type | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | HRD Corp<br>Claimable | Course<br>Fee (RM) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | MBOT CPD<br>Hours | 2022 |     |     |     |       |       |       |       |       |     |     |     |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------|-------|------------|---------------------------------------------------------------------------|-----------------------|--------------------|------------|------------|--------------------|-------------------|------|-----|-----|-----|-------|-------|-------|-------|-------|-----|-----|-----|
|                                                                                |                                                                                              |              |       |            |                                                                           |                       |                    |            |            |                    |                   | Jan  | Feb | Mac | Apr | May   | June  | July  | Aug   | Sept  | Oct | Nov | Dec |
| 1                                                                              | SKG15 : Integrated Module, L1                                                                | UPDATED DATE | 1     | F2F (NR)   | INSTEP*                                                                   | Yes                   | 5,050              | 9          | 20         | 4                  | Coming Soon       |      |     |     |     |       | 25-28 |       |       |       |     |     |     |
| 2                                                                              | SKG15 : Atmospheric Storage Tank, L2                                                         | UPDATED DATE | 2     | F2F (NR)   | KL                                                                        | Yes                   | 4,270              | 8          | 20         | 4                  | Coming Soon       |      |     |     |     |       |       | 1-4   |       |       |     |     |     |
| 3                                                                              | SKG15 : Composites & Polymers, L2                                                            | UPDATED DATE | 2     | F2F (NR)   | KL                                                                        | Coming Soon           | 3,410              | 6          | 20         | 3                  | Coming Soon       |      |     |     |     |       |       | 2-4   |       |       |     |     |     |
| 4                                                                              | SKG15 : Corrosion Control & Mitigation - Part 1 Painting & Coating, L2                       | UPDATED DATE | 2     | F2F (NR)   | KL                                                                        | Yes                   | 2,900              | 9          | 20         | 2                  | Coming Soon       |      |     |     |     |       |       | 3-4   |       |       |     |     |     |
| 5                                                                              | SKG15 : Corrosion Control & Mitigation - Part 2 Chemical Treatment & Cathodic Protection, L2 |              | 2     | F2F (NR)   | KL                                                                        | Yes                   | 4,830              | 9          | 20         | 4                  | Coming Soon       |      |     |     |     | 27-30 |       |       |       |       |     |     |     |
| 6                                                                              | SKG15 : Corrosion Engineering and Management, L2                                             |              | 2     | F2F (NR)   | KL                                                                        | Coming Soon           | 3,530              | 10         | 20         | 3                  | Coming Soon       |      |     |     |     |       | 25-27 |       |       |       |     |     |     |
| 7                                                                              | SKG15 : Corrosion Testing & Monitoring, L2                                                   | UPDATED DATE | 2     | F2F (NR)   | KL                                                                        | Coming Soon           | 2,770              | 10         | 20         | 2                  | Coming Soon       |      |     |     |     |       | 19-20 |       |       |       |     |     |     |
| 8                                                                              | SKG15 : Failure Investigation & Prevention, L2                                               |              | 2     | F2F (NR)   | KL                                                                        | Yes                   | 2,690              | 10         | 20         | 2                  | Coming Soon       |      |     |     |     |       |       | 3-4   |       |       |     |     |     |
| 9                                                                              | SKG15 : FPV & UPV, Piping & Pipeline, L2                                                     |              | 2     | F2F (NR)   | Melaka/KL                                                                 | Yes                   | 4,840              | 8          | 20         | 4                  | Coming Soon       |      |     |     |     |       | 25-28 |       |       |       |     |     |     |
| 10                                                                             | SKG15 : Metallurgy & Materials Selection, L2                                                 |              | 2     | F2F (NR)   | KL                                                                        | Yes                   | 4,300              | 13         | 20         | 4                  | Coming Soon       |      |     |     |     |       |       |       | 12-15 |       |     |     |     |
| 11                                                                             | SKG15 : Non-Destructive Testing, L2                                                          |              | 2     | F2F (NR)   | INSTEP*                                                                   | Yes                   | 2,890              | 11         | 20         | 3                  | Coming Soon       |      |     |     |     |       |       |       | 12-14 |       |     |     |     |
| 12                                                                             | SKG15 : Quality Management, L2                                                               | UPDATED DATE | 2     | F2F (NR)   | KL                                                                        | Yes                   | 2,770              | 10         | 20         | 2                  | Coming Soon       |      |     |     |     |       |       | 17-18 |       |       |     |     |     |
| 13                                                                             | SKG15 : Risk Based Inspection Methodology, L2                                                |              | 2     | F2F (NR)   | KL                                                                        | Yes                   | 2,690              | 10         | 20         | 2                  | Coming Soon       |      |     |     |     |       |       |       |       | 26-27 |     |     |     |
| 14                                                                             | SKG15 : Supercorp - Process Related Corrosion (CO2/H2S/Acetic Acid/MIC), L2                  |              | 2     | F2F (NR)   | KL                                                                        | Coming Soon           | 3,810              | 10         | 20         | 3                  | Coming Soon       |      |     |     |     |       |       | 9-11  |       |       |     |     |     |
| 15                                                                             | SKG15 : Welding Technology, L2                                                               | UPDATED DATE | 2     | F2F (NR)   | INSTEP*                                                                   | Coming Soon           | 2,650              | 10         | 20         | 3                  | Coming Soon       |      |     |     |     | 7-9   |       |       |       |       |     |     |     |
| 16                                                                             | SKG15 : Advanced Material Selection, L3                                                      |              | 3     | F2F (NR)   | KL                                                                        | Coming Soon           | 4,420              | 7          | 20         | 3                  | Coming Soon       |      |     |     |     | 14-16 |       |       |       |       |     |     |     |
| 17                                                                             | SKG15 : Advanced Non Destructive Testing, L3                                                 |              | 3     | F2F (NR)   | KL                                                                        | Yes                   | 3,980              | 8          | 20         | 3                  | Coming Soon       |      |     |     |     |       | 19-21 |       |       |       |     |     |     |
| 18                                                                             | SKG15 : Advanced Welding Technology, L3                                                      |              | 3     | F2F (NR)   | KL                                                                        | Yes                   | 3,810              | 8          | 20         | 3                  | Coming Soon       |      |     |     |     |       |       | 9-11  |       |       |     |     |     |
| 19                                                                             | SKG15 : Ceramics Composites & Polymers for Advance Application, L3                           |              | 3     | F2F (NR)   | KL                                                                        | Coming Soon           | 4,610              | 7          | 20         | 4                  | Coming Soon       |      |     |     |     |       |       |       |       | 17-20 |     |     |     |
| 20                                                                             | SKG15 : Corrosion Control and Mitigation, L3                                                 |              | 3     | F2F (NR)   | KL                                                                        | Yes                   | 5,570              | 7          | 20         | 5                  | Coming Soon       |      |     |     |     |       |       | 22-26 |       |       |     |     |     |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

## SKG15: Materials, Corrosion & Inspection Engineering

| Programme Leader:<br>M Naim Abu<br>+6013-574 9697<br>mnaim.abu@petronas.com.my |                                                         | Level | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |     |     |     |       |      |     |       |     |     |     |
|--------------------------------------------------------------------------------|---------------------------------------------------------|-------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-----|-----|-----|-------|------|-----|-------|-----|-----|-----|
|                                                                                |                                                         |       |            |                                                               |                    |                 |         |         |                 |                | Jan  | Feb | Mar | Apr | May | June  | July | Aug | Sept  | Oct | Nov | Dec |
| 21                                                                             | SKG15 : Corrosion Engineering and Management, L3        | 3     | F2F (NR)   | KL                                                            | Coming Soon        | 4,540           | 7       | 20      | 3               | Coming Soon    |      |     |     |     |     |       |      |     | 6-8   |     |     |     |
| 22                                                                             | SKG15 : Corrosion Testing & Monitoring, L3              | 3     | F2F (NR)   | KL                                                            | Coming Soon        | 4,540           | 7       | 20      | 3               | Coming Soon    |      |     |     |     |     |       |      |     | 20-22 |     |     |     |
| 23                                                                             | SKG15 : Fitness for Service, L3                         | 3     | F2F (NR)   | KL                                                            | Yes                | 3,220           | 12      | 20      | 5               | Coming Soon    |      |     |     |     |     | 20-24 |      |     |       |     |     |     |
| 24                                                                             | SKG15 : Risk Based Inspection Assessment & Auditing, L3 | 3     | F2F (NR)   | KL                                                            | Yes                | 3,820           | 10      | 20      | 3               | Coming Soon    |      |     |     |     |     |       |      |     |       | 4-6 |     |     |



# SKG16: Process Operations

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br>yusuf.hussain@petronas.com.my |                                                                            |  |  |  | Level | Prog. Type                                                     | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP)              | HRD Corp<br>Claimable | Course<br>Fee (RM) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | MBOT CPD<br>Hours | 2022        |                                                  |       |      |     |       |       |     |      |     |       |     |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--|--|--|-------|----------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------|--------------------|------------|------------|--------------------|-------------------|-------------|--------------------------------------------------|-------|------|-----|-------|-------|-----|------|-----|-------|-----|
|                                                                                                                |                                                                            |  |  |  |       |                                                                |                                                                                        |                       |                    |            |            |                    |                   | Jan         | Feb                                              | Mac   | Apr  | May | June  | July  | Aug | Sept | Oct | Nov   | Dec |
| SKG16.1 Operations Management                                                                                  |                                                                            |  |  |  |       |                                                                |                                                                                        |                       |                    |            |            |                    |                   |             |                                                  |       |      |     |       |       |     |      |     |       |     |
| Upstream - Programmes for E1                                                                                   |                                                                            |  |  |  |       |                                                                |                                                                                        |                       |                    |            |            |                    |                   |             |                                                  |       |      |     |       |       |     |      |     |       |     |
| 1                                                                                                              | SKG16.1 : Introduction to Integrated HC Supply Chain, L1                   |  |  |  |       | 1                                                              | Refer to 16.2 (Upstream) Calendar                                                      |                       |                    |            |            |                    |                   |             |                                                  |       |      |     |       |       |     |      |     |       |     |
| 2                                                                                                              | SKG16.1 : Plant Cost Management, L2                                        |  |  |  |       | 2                                                              | Refer to 16.1 (Downstream) Calendar                                                    |                       |                    |            |            |                    |                   |             |                                                  |       |      |     |       |       |     |      |     |       |     |
| 3                                                                                                              | SKG16.1 : Plant Performance Monitoring & Optimisation, L2                  |  |  |  |       | 2                                                              | Refer to 16.3 (Process Technology) Calendar                                            |                       |                    |            |            |                    |                   |             |                                                  |       |      |     |       |       |     |      |     |       |     |
| 4                                                                                                              | SKG16.1 : Process Schematic (known as P&ID) Upstream                       |  |  |  |       | 2                                                              | F2F (NR)                                                                               | KL                    | Yes                | 4,230      | 10         | 20                 | 3                 | Coming Soon |                                                  |       |      |     |       |       |     |      |     | 6-8   |     |
| 5                                                                                                              | SKG16.1 : Surface Production Facilities – Oil/Water & Gas Handling, L2     |  |  |  |       | 2                                                              | Refer to 16.2 (Upstream) Calendar                                                      |                       |                    |            |            |                    |                   |             |                                                  |       |      |     |       |       |     |      |     |       |     |
| 6                                                                                                              | SKG16.1 : Well Operations & Maintenance Upstream                           |  |  |  |       | 2                                                              | F2F (NR)                                                                               | KL                    | Coming Soon        | 4,730      | 8          | 20                 | 3                 | Coming Soon | <a href="#">Upon Request ( Click to Enquire)</a> |       |      |     |       |       |     |      |     |       |     |
| 7                                                                                                              | SKG16.1 : Well Operations & Maintenance Upstream (VILT)                    |  |  |  |       | 2                                                              | VILT                                                                                   | MS Teams              | Coming Soon        | 2,680      | 8          | 10                 | 3                 | Coming Soon |                                                  |       | 8-10 |     |       |       |     |      |     |       |     |
| 8                                                                                                              | SKG16.1 : Introduction to Petroleum Technology INSTEP                      |  |  |  |       | Refer to NET PIP : Introduction to Petroleum Technology (VILT) |                                                                                        |                       |                    |            |            |                    |                   |             |                                                  |       |      |     |       |       |     |      |     |       |     |
| Upstream - Programmes for E2                                                                                   |                                                                            |  |  |  |       |                                                                |                                                                                        |                       |                    |            |            |                    |                   |             |                                                  |       |      |     |       |       |     |      |     |       |     |
| 9                                                                                                              | SKG16.1 : Gas Lift Optimisation Upstream                                   |  |  |  |       | 2                                                              | F2F (NR)                                                                               | KL                    | Coming Soon        | 4,500      | 10         | 25                 | 3                 | Coming Soon |                                                  |       |      |     |       | 14-16 |     |      |     |       | 5-7 |
| 10                                                                                                             | SKG16.1 : Gas Lift Optimisation Upstream (VILT)                            |  |  |  |       | 2                                                              | VILT                                                                                   | MS Teams              | Yes                | 2,300      | 8          | 15                 | 3                 | Coming Soon |                                                  |       |      |     | 24-26 |       |     |      |     |       |     |
| 11                                                                                                             | SKG16.1 : Safety in Process Design & Operations, L2                        |  |  |  |       | 2                                                              | Refer to 16.3 (Process Technology) Calendar                                            |                       |                    |            |            |                    |                   |             |                                                  |       |      |     |       |       |     |      |     |       |     |
| 12                                                                                                             | SKG16.1 : Advance Oil & Gas Handling (Subsurface), Level 3 Upstream        |  |  |  |       | 3                                                              | F2F (NR)                                                                               | KL                    | Coming Soon        | 6,590      | 12         | 25                 | 5                 | Coming Soon | <a href="#">Upon Request ( Click to Enquire)</a> |       |      |     |       |       |     |      |     |       |     |
| 13                                                                                                             | SKG16.1 : Advance Oil & Gas Handling (Subsurface), Level 3 Upstream (VILT) |  |  |  |       | 3                                                              | VILT                                                                                   | MS Teams              | Coming Soon        | 3,880      | 8          | 15                 | 5                 | Coming Soon |                                                  | 21-25 |      |     |       |       |     |      |     |       |     |
| 14                                                                                                             | SKG16.1 : Advance Oil & Gas Handling (Surface), Level 3 Upstream           |  |  |  |       | 3                                                              | F2F (NR)                                                                               | KL                    | Coming Soon        | 6,590      | 12         | 25                 | 5                 | Coming Soon | <a href="#">Upon Request ( Click to Enquire)</a> |       |      |     |       |       |     |      |     |       |     |
| 15                                                                                                             | SKG16.1 : Advance Oil & Gas Handling (Surface), Level 3 Upstream (VILT)    |  |  |  |       | 3                                                              | VILT                                                                                   | MS Teams              | Coming Soon        | 3,880      | 8          | 15                 | 5                 | Coming Soon |                                                  |       |      |     |       |       |     |      |     | 14-18 |     |
| 16                                                                                                             | SKG16.1 : Production Enhancement, L3                                       |  |  |  |       | 3                                                              | Refer to 16.2 Well Programming & Integrated Production Enhancement (Upstream) Calendar |                       |                    |            |            |                    |                   |             |                                                  |       |      |     |       |       |     |      |     |       |     |

# SKG16: Process Operations

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br>yusuf.hussain@petronas.com.my |                                                                           | Level                   | Prog. Type                                  | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | HRD Corp<br>Claimable | Course<br>Fee (RM) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | MBOT CPD<br>Hours | 2022                             |     |     |     |       |       |      |     |       |     |       |     |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------|---------------------------------------------|---------------------------------------------------------------------------|-----------------------|--------------------|------------|------------|--------------------|-------------------|----------------------------------|-----|-----|-----|-------|-------|------|-----|-------|-----|-------|-----|
|                                                                                                                |                                                                           |                         |                                             |                                                                           |                       |                    |            |            |                    |                   | Jan                              | Feb | Mac | Apr | May   | June  | July | Aug | Sept  | Oct | Nov   | Dec |
| Downstream - Programmes for E1                                                                                 |                                                                           |                         |                                             |                                                                           |                       |                    |            |            |                    |                   |                                  |     |     |     |       |       |      |     |       |     |       |     |
| 17                                                                                                             | SKG16.1 : Hydrocarbon Movement, Level 2 Downstream                        | 2                       | F2F (NR)                                    | KL                                                                        | Yes                   | 4,250              | 8          | 20         | 3                  | Coming Soon       |                                  |     |     |     |       | 21-23 |      |     |       |     |       |     |
| 18                                                                                                             | SKG16.1 : Hydrocarbon Movement, Level 2 Downstream (VILT)                 | 2                       | VILT                                        | MS Teams                                                                  | Yes                   | 2,300              | 8          | 15         | 3                  | Coming Soon       | Upon Request ( Click to Enquire) |     |     |     |       |       |      |     |       |     |       |     |
| 19                                                                                                             | SKG16.1 : Plant Cost Management, Level 2 Downstream                       | 2                       | F2F (NR)                                    | KL                                                                        | Yes                   | 4,300              | 10         | 20         | 3                  | Coming Soon       |                                  |     |     |     |       |       |      |     | 18-20 |     |       |     |
| 20                                                                                                             | SKG16.1 : Plant Performance Monitoring & Optimisation, L2                 | 2                       | Refer to 16.3 (Process Technology) Calendar |                                                                           |                       |                    |            |            |                    |                   |                                  |     |     |     |       |       |      |     |       |     |       |     |
| 21                                                                                                             | SKG16.1 : Process Control Theory & Application, Level 2 Downstream        | 2                       | F2F (NR)                                    | KL                                                                        | Yes                   | 5,080              | 8          | 20         | 3                  | Coming Soon       |                                  |     |     |     | 24-26 |       |      |     |       |     |       |     |
| 22                                                                                                             | SKG16.1 : Process Control Theory & Application, Level 2 Downstream (VILT) | 2                       | VILT                                        | MS Teams                                                                  | Yes                   | 2,670              | 8          | 10         | 3                  | Coming Soon       |                                  |     |     |     |       | 14-16 |      |     |       |     |       |     |
| 23                                                                                                             | SKG16.1 : SSDP Grounding I (Functional) Downstream                        | 2                       | F2F (NR)                                    | KL                                                                        | Yes                   | 4,710              | 10         | 20         | 3                  | Coming Soon       | Upon Request ( Click to Enquire) |     |     |     |       |       |      |     |       |     |       |     |
| 24                                                                                                             | SKG16.1 : SSDP Grounding I (Functional) Downstream (VILT)                 | 2                       | VILT                                        | MS Teams                                                                  | Yes                   | 3,170              | 8          | 15         | 3                  | Coming Soon       |                                  |     |     |     |       |       |      |     |       |     |       |     |
| 25                                                                                                             | SKG16.1 : SSDP Grounding II (Multidisciplinary) Downstream                | 2                       | F2F (NR)                                    | INSTEP*                                                                   | Yes                   | 5,290              | 8          | 20         | 4                  | Coming Soon       |                                  |     |     |     |       |       |      |     |       |     |       |     |
| 26                                                                                                             | SKG16.1 : SSDP Grounding II (Multidisciplinary) Downstream (VILT)         | 2                       | VILT                                        | MS Teams                                                                  | Coming Soon           | 3,370              | 8          | 15         | 4                  | Coming Soon       |                                  |     |     |     |       |       |      |     |       |     |       |     |
| 27                                                                                                             | SKG16.1 : SSDP Supervisory and Leadership Downstream                      | 2                       | F2F (NR)                                    | KL                                                                        | Yes                   | 3,930              | 14         | 20         | 4                  | Coming Soon       |                                  |     |     |     |       |       |      |     |       |     |       |     |
| 28                                                                                                             | SKG16.1 : HSE Management System                                           | Refer to SKG18 Calendar |                                             |                                                                           |                       |                    |            |            |                    |                   |                                  |     |     |     |       |       |      |     |       |     |       |     |
| Downstream - Programmes for E2                                                                                 |                                                                           |                         |                                             |                                                                           |                       |                    |            |            |                    |                   |                                  |     |     |     |       |       |      |     |       |     |       |     |
| 39                                                                                                             | SKG16.1 : Safety in Process Design & Operations, L2                       | 2                       | Refer to 16.3 (Process Technology) Calendar |                                                                           |                       |                    |            |            |                    |                   |                                  |     |     |     |       |       |      |     |       |     |       |     |
| 30                                                                                                             | SKG16.1 : Plant Start Up & Shutdown Downstream                            | 3                       | F2F (NR)                                    | KL                                                                        | Yes                   | 4,230              | 10         | 25         | 3                  | Coming Soon       |                                  |     |     |     |       |       |      |     |       |     | 20-22 |     |
| 31                                                                                                             | SKG16.1 : SKG18 Emergency Management                                      | Refer to SKG18 Calendar |                                             |                                                                           |                       |                    |            |            |                    |                   |                                  |     |     |     |       |       |      |     |       |     |       |     |



# SKG16: Process Operations

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br>yusuf.hussain@petronas.com.my |                                                                                             | Level | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022                                             |       |       |     |       |       |      |       |      |     |       |     |     |  |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|--------------------------------------------------|-------|-------|-----|-------|-------|------|-------|------|-----|-------|-----|-----|--|
|                                                                                                                |                                                                                             |       |            |                                                               |                    |                 |         |         |                 |                | Jan                                              | Feb   | Mac   | Apr | May   | June  | July | Aug   | Sept | Oct | Nov   | Dec |     |  |
| SKG16.2 Production Planning                                                                                    |                                                                                             |       |            |                                                               |                    |                 |         |         |                 |                |                                                  |       |       |     |       |       |      |       |      |     |       |     |     |  |
| Upstream - Programmes for E1                                                                                   |                                                                                             |       |            |                                                               |                    |                 |         |         |                 |                |                                                  |       |       |     |       |       |      |       |      |     |       |     |     |  |
| 32                                                                                                             | SKG16.2 : Introduction to Integrated HC Supply Chain, Level 1 Upstream                      | 1     | F2F (NR)   | KL                                                            | Yes                | 5,980           | 8       | 20      | 5               | Coming Soon    |                                                  |       |       |     | 23-27 |       |      |       |      |     |       |     |     |  |
| 33                                                                                                             | SKG16.2 : Introduction to Integrated HC Supply Chain, Level 1 Upstream (VILT)               | 1     | VILT       | MS Teams                                                      | Yes                | 2,090           | 8       | 15      | 5               | Coming Soon    |                                                  | 21-25 |       |     |       |       |      |       |      |     |       |     |     |  |
| 34                                                                                                             | SKG16.2 : HC Accounting and Allocation, Level 2 Upstream                                    | 2     | F2F (NR)   | KL                                                            | Yes                | 4,420           | 9       | 20      | 3               | Coming Soon    |                                                  |       | 22-24 |     |       |       |      |       |      |     |       |     |     |  |
| 35                                                                                                             | SKG16.2 : HC Accounting and Allocation, Level 2 Upstream (VILT)                             | 2     | VILT       | MS Teams                                                      | Yes                | 2,250           | 9       | 15      | 3               | Coming Soon    |                                                  |       | 15-17 |     |       |       |      |       |      |     |       |     |     |  |
| 36                                                                                                             | SKG16.2 : HC Planning and Forecasting, Level 2 Upstream                                     | 2     | F2F (NR)   | KL                                                            | Coming Soon        | 3,700           | 9       | 20      | 3               | Coming Soon    | <a href="#">Upon Request ( Click to Enquire)</a> |       |       |     |       |       |      |       |      |     |       |     |     |  |
| 37                                                                                                             | SKG16.2 : HC Planning and Forecasting, Level 2 Upstream (VILT)                              | 2     | VILT       | MS Teams                                                      | Yes                | 2,250           | 9       | 15      | 3               | Coming Soon    |                                                  |       |       |     |       |       |      |       | 6-8  |     |       |     |     |  |
| 38                                                                                                             | SKG16.2 : Integrated HC Supply Chain & Optimisation, Level 2 Upstream                       | 2     | F2F (NR)   | KL                                                            | Yes                | 6,190           | 9       | 20      | 5               | Coming Soon    |                                                  |       |       |     |       |       |      |       |      |     |       |     | 4-8 |  |
| 39                                                                                                             | SKG16.2 : Production Operations, Level 2 Upstream                                           | 2     | F2F (NR)   | KL                                                            | Yes                | 5,890           | 9       | 20      | 5               | Coming Soon    | <a href="#">Upon Request ( Click to Enquire)</a> |       |       |     |       |       |      |       |      |     |       |     |     |  |
| 40                                                                                                             | SKG16.2 : Production Operations, Level 2 Upstream (VILT)                                    | 2     | VILT       | MS Teams                                                      | Yes                | 3,190           | 8       | 15      | 5               | Coming Soon    |                                                  |       |       |     | 23-27 |       |      |       |      |     |       |     |     |  |
| 41                                                                                                             | SKG16.2 : Surface Production Facilities – Oil/Water & Gas Handling, Level 2 Upstream        | 2     | F2F (NR)   | KL                                                            | Coming Soon        | 4,790           | 8       | 20      | 5               | Coming Soon    |                                                  |       |       |     |       | 25-29 |      | 19-23 |      |     |       |     |     |  |
| 42                                                                                                             | SKG16.2 : Surface Production Facilities – Oil/Water & Gas Handling, Level 2 Upstream (VILT) | 2     | VILT       | MS Teams                                                      | Coming Soon        | 2,550           | 9       | 15      | 5               | Coming Soon    |                                                  |       |       |     |       |       |      |       |      |     | 21-25 |     |     |  |
| 43                                                                                                             | SKG16.2 : Well Programming & Integrated Production Enhancement, Level 2 Upstream            | 2     | F2F (NR)   | KL                                                            | Yes                | 6,620           | 8       | 20      | 5               | Coming Soon    | <a href="#">Upon Request ( Click to Enquire)</a> |       |       |     |       |       |      |       |      |     |       |     |     |  |
| 44                                                                                                             | SKG16.2 : Well Programming & Integrated Production Enhancement, Level 2 Upstream (VILT)     | 2     | VILT       | MS Teams                                                      | Coming Soon        | 3,060           | 9       | 15      | 5               | Coming Soon    |                                                  |       |       |     |       |       |      |       |      |     |       |     |     |  |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

# SKG16: Process Operations

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br>yusuf.hussain@petronas.com.my |                                                                                | Level | Prog. Type                        | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | HRD Corp<br>Claimable | Course Fee<br>(RM) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | MBOT CPD<br>Hours | 2022                                             |     |     |     |     |       |      |     |      |       |     |     |  |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------|-----------------------------------|---------------------------------------------------------------------------|-----------------------|--------------------|------------|------------|--------------------|-------------------|--------------------------------------------------|-----|-----|-----|-----|-------|------|-----|------|-------|-----|-----|--|
|                                                                                                                |                                                                                |       |                                   |                                                                           |                       |                    |            |            |                    |                   | Jan                                              | Feb | Mac | Apr | May | June  | July | Aug | Sept | Oct   | Nov | Dec |  |
| Upstream - Programmes for E2                                                                                   |                                                                                |       |                                   |                                                                           |                       |                    |            |            |                    |                   |                                                  |     |     |     |     |       |      |     |      |       |     |     |  |
| 45                                                                                                             | SKG16.2 : Petroleum Contract, L2                                               | 2     | Refer to SKG10 Calendar           |                                                                           |                       |                    |            |            |                    |                   |                                                  |     |     |     |     |       |      |     |      |       |     |     |  |
| 46                                                                                                             | SKG16.2 : Practice of Petroleum Economics, L2                                  | 2     | Refer to SKG10 Calendar           |                                                                           |                       |                    |            |            |                    |                   |                                                  |     |     |     |     |       |      |     |      |       |     |     |  |
| 47                                                                                                             | SKG16.2 : Advance Oil & Gas Handling (Subsurface), L3                          | 3     | Refer to 16.1 (Upstream) Calendar |                                                                           |                       |                    |            |            |                    |                   |                                                  |     |     |     |     |       |      |     |      |       |     |     |  |
| 48                                                                                                             | SKG16.2 : Advance Oil & Gas Handling (Surface), L3                             | 3     | Refer to 16.1 (Upstream) Calendar |                                                                           |                       |                    |            |            |                    |                   |                                                  |     |     |     |     |       |      |     |      |       |     |     |  |
| 49                                                                                                             | SKG16.2 : Practice of Reservoir Engineering, L3                                | 3     | Refer to SKG10 Calendar           |                                                                           |                       |                    |            |            |                    |                   |                                                  |     |     |     |     |       |      |     |      |       |     |     |  |
| Downstream - Programmes for E1                                                                                 |                                                                                |       |                                   |                                                                           |                       |                    |            |            |                    |                   |                                                  |     |     |     |     |       |      |     |      |       |     |     |  |
| 50                                                                                                             | SKG16.2 : Introduction to Integrated HC Supply Chain, L1                       | 1     | Refer to 16.2 (Upstream) Calendar |                                                                           |                       |                    |            |            |                    |                   |                                                  |     |     |     |     |       |      |     |      |       |     |     |  |
| 51                                                                                                             | SKG16.2 : Feedstock Evaluation, Level 2 Downstream                             | 2     | F2F (NR)                          | KL                                                                        | Coming Soon           | 3,750              | 8          | 10         | 2                  | Coming Soon       | <a href="#">Upon Request ( Click to Enquire)</a> |     |     |     |     |       |      |     |      |       |     |     |  |
| 52                                                                                                             | SKG16.2 : HC Accounting and Allocation, Level 2 Downstream                     | 2     | F2F (NR)                          | KL                                                                        | Yes                   | 4,780              | 6          | 10         | 2                  | Coming Soon       |                                                  |     |     |     |     |       |      |     |      |       |     |     |  |
| 53                                                                                                             | SKG16.2 : HC Accounting and Allocation, Level 2 Downstream (VILT)              | 2     | VILT                              | MS Teams                                                                  | Yes                   | 2,720              | 6          | 10         | 2                  | Coming Soon       |                                                  |     |     |     |     |       |      | 3-4 |      |       |     |     |  |
| 54                                                                                                             | SKG16.2 : HC Planning and Forecasting, Level 2 Downstream                      | 2     | F2F (NR)                          | KL                                                                        | Coming Soon           | 3,600              | 6          | 20         | 2                  | Coming Soon       | <a href="#">Upon Request ( Click to Enquire)</a> |     |     |     |     |       |      |     |      |       |     |     |  |
| 55                                                                                                             | SKG16.2 : HC Planning and Forecasting, Level 2 Downstream (VILT)               | 2     | VILT                              | MS Teams                                                                  | Coming Soon           | 1,800              | 6          | 15         | 2                  | Coming Soon       |                                                  |     |     |     |     |       |      |     |      |       |     |     |  |
| 56                                                                                                             | SKG16.2 : Integrated HC Supply Chain & Optimisation, Level 2 Downstream        | 2     | F2F (NR)                          | KL                                                                        | Yes                   | 4,400              | 6          | 20         | 2                  | Coming Soon       |                                                  |     |     |     |     |       |      |     |      |       |     |     |  |
| 57                                                                                                             | SKG16.2 : Integrated HC Supply Chain & Optimisation, Level 2 Downstream (VILT) | 2     | VILT                              | MS Teams                                                                  | Yes                   | 2,540              | 6          | 10         | 2                  | Coming Soon       |                                                  |     |     |     |     | 21-22 |      |     |      |       |     |     |  |
| Downstream - Programmes for E1                                                                                 |                                                                                |       |                                   |                                                                           |                       |                    |            |            |                    |                   |                                                  |     |     |     |     |       |      |     |      |       |     |     |  |
| 58                                                                                                             | SKG16.2 : Marketing for Production Planning, Level 3 Downstream                | 3     | F2F (NR)                          | KL                                                                        | Coming Soon           | 6,290              | 6          | 20         | 3                  | Coming Soon       | <a href="#">Upon Request ( Click to Enquire)</a> |     |     |     |     |       |      |     |      |       |     |     |  |
| 59                                                                                                             | SKG16.2 : Ship & Shore Measurement, Level 3 Downstream                         | 3     | F2F (NR)                          | KL                                                                        | Coming Soon           | 6,360              | 6          | 20         | 3                  | Coming Soon       |                                                  |     |     |     |     |       |      |     |      | 25-27 |     |     |  |

# SKG16: Process Operations

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br>yusuf.hussain@petronas.com.my |                                                                       | Level | Prog. Type                                              | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022                                             |     |            |     |            |       |       |     |       |       |     |     |  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------|---------------------------------------------------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|--------------------------------------------------|-----|------------|-----|------------|-------|-------|-----|-------|-------|-----|-----|--|
|                                                                                                                |                                                                       |       |                                                         |                                                               |                    |                 |         |         |                 |                | Jan                                              | Feb | Mac        | Apr | May        | June  | July  | Aug | Sept  | Oct   | Nov | Dec |  |
| SKG16.3 Process Technology                                                                                     |                                                                       |       |                                                         |                                                               |                    |                 |         |         |                 |                |                                                  |     |            |     |            |       |       |     |       |       |     |     |  |
| Process Technology - Programmes for E1                                                                         |                                                                       |       |                                                         |                                                               |                    |                 |         |         |                 |                |                                                  |     |            |     |            |       |       |     |       |       |     |     |  |
| 60                                                                                                             | SKG16.3 : iCON Basic Training by GTS                                  | 2     | Refer to 16.4 (Plant Improvement/Optimization) Calendar |                                                               |                    |                 |         |         |                 |                |                                                  |     |            |     |            |       |       |     |       |       |     |     |  |
| 61                                                                                                             | SKG16.3 : Grounding Program, Level 2                                  | 2     | F2F (NR)                                                | KL                                                            | Yes                | 11,850          | 9       | 20      | 10              | Coming Soon    |                                                  |     |            |     | 23/5 – 3/6 |       |       |     |       |       |     |     |  |
| 62                                                                                                             | SKG16.3 : Grounding Program, Level 2 (VILT)                           | 2     | VILT                                                    | MS Teams                                                      | Coming Soon        | 4,830           | 9       | 20      | 10              | Coming Soon    |                                                  |     |            |     | 20/6 - 1/7 |       |       |     | 17-28 |       |     |     |  |
| 63                                                                                                             | SKG16.3 : Plant Performance Monitoring & Optimization, Level 2        | 2     | F2F (NR)                                                | KL                                                            | Yes                | 4,000           | 10      | 25      | 3               | Coming Soon    |                                                  |     |            |     |            |       |       |     |       |       |     |     |  |
| 64                                                                                                             | SKG16.3 : Plant Performance Monitoring & Optimization, Level 2 (VILT) | 2     | VILT                                                    | MS Teams                                                      | Yes                | 2,180           | 9       | 15      | 3               | Coming Soon    |                                                  |     |            |     | 30/5 – 1/6 |       |       |     | 6-8   |       |     | 6-8 |  |
| 65                                                                                                             | SKG16.3 : Safety in Process Design & Operations, Level 2              | 2     | F2F (NR)                                                | KL / Kota Kinabalu (KK)                                       | Yes                | 5,020           | 10      | 25      | 4               | Coming Soon    |                                                  |     | 15-17 (KL) |     | 23-26 (KK) |       |       |     |       |       |     |     |  |
| 66                                                                                                             | SKG16.3 : Safety in Process Design & Operations, Level 2 (VILT)       | 2     | VILT                                                    | MS Teams                                                      | Coming Soon        | 2,840           | 9       | 15      | 4               | Coming Soon    |                                                  |     |            |     |            |       | 8-11  |     |       |       |     |     |  |
| 67                                                                                                             | SKG16.3 : Water Technology, Level 2 (Waste Water)                     | 2     | F2F (NR)                                                | KL                                                            | Yes                | 3,830           | 9       | 20      | 2               | Coming Soon    | <a href="#">Upon Request ( Click to Enquire)</a> |     |            |     |            |       |       |     |       |       |     |     |  |
| 68                                                                                                             | SKG16.3 : Water Technology, Level 2 (Waste Water) (VILT)              | 2     | VILT                                                    | MS Teams                                                      | Yes                | 1,910           | 9       | 15      | 2               | Coming Soon    |                                                  |     |            |     |            |       |       |     |       |       |     |     |  |
| 69                                                                                                             | SKG16.3 : Water Technology, Level 2 (Water Utility)                   | 2     | F2F (NR)                                                | KL                                                            | Coming Soon        | 5,740           | 9       | 20      | 4               | Coming Soon    |                                                  |     | 14-17      |     |            |       |       | 4-7 |       |       |     |     |  |
| 70                                                                                                             | SKG16.3 : Water Technology, Level 2 (Water Utility) (VILT)            | 2     | VILT                                                    | MS Teams                                                      | Coming Soon        | 3,120           | 9       | 15      | 4               | Coming Soon    |                                                  |     |            |     |            | 27-30 |       |     |       |       |     |     |  |
| Process Technology - Programmes for E2                                                                         |                                                                       |       |                                                         |                                                               |                    |                 |         |         |                 |                |                                                  |     |            |     |            |       |       |     |       |       |     |     |  |
| 71                                                                                                             | SKG16.3 : Design of Water System, Level 3                             | 3     | F2F (NR)                                                | KL                                                            | Yes                | 9,390           | 8       | 20      | 5               | Coming Soon    |                                                  |     |            |     | 30/5 – 3/6 |       |       |     |       |       |     |     |  |
| 72                                                                                                             | SKG16.3 : Distillation Design & Operations, Level 3 (VILT)            | 3     | VILT                                                    | MS Teams                                                      | Coming Soon        | 3,530           | 6       | 15      | 3               | Coming Soon    |                                                  |     | 22-24      |     |            |       |       |     |       |       |     |     |  |
| 73                                                                                                             | SKG16.3 : HAZOP Leader, Level 3                                       | 3     | F2F (NR)                                                | KL                                                            | Yes                | 4,600           | 9       | 20      | 3               | Coming Soon    | <a href="#">Upon Request ( Click to Enquire)</a> |     |            |     |            |       |       |     |       |       |     |     |  |
| 74                                                                                                             | SKG16.3 : HAZOP Leader, Level 3 (VILT)                                | 3     | VILT                                                    | MS Teams                                                      | Coming Soon        | 2,380           | 9       | 15      | 3               | Coming Soon    |                                                  |     |            |     |            |       |       |     |       |       |     |     |  |
| 75                                                                                                             | SKG16.3 : Process Risk Assessment & Tools, Level 3                    | 3     | F2F (NR)                                                | KL                                                            | Yes                | 4,210           | 7       | 20      | 2               | Coming Soon    |                                                  |     | 15-16      |     |            | 8-9   |       |     |       | 20-21 |     |     |  |
| 76                                                                                                             | SKG16.3 : Process Risk Assessment & Tools, Level 3 (VILT)             | 3     | VILT                                                    | MS Teams                                                      | Coming Soon        | 2,380           | 9       | 15      | 2               | Coming Soon    |                                                  |     |            |     |            |       | 20-21 |     |       |       |     |     |  |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes



# SKG16: Process Operations

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br>yusuf.hussain@petronas.com.my |                                                                     |     |                                             |          | Level       | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax     | Max Pax                                           | Duration (Days) | MBOT CPD Hours | 2022 |       |     |       |       |     |     |       |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----|---------------------------------------------|----------|-------------|------------|---------------------------------------------------------------|--------------------|-----------------|-------------|---------------------------------------------------|-----------------|----------------|------|-------|-----|-------|-------|-----|-----|-------|--|--|--|--|
| Jan                                                                                                            | Feb                                                                 | Mac | Apr                                         | May      |             |            |                                                               |                    |                 |             |                                                   |                 |                | June | July  | Aug | Sept  | Oct   | Nov | Dec |       |  |  |  |  |
| Process Safety- Programmes for E1                                                                              |                                                                     |     |                                             |          |             |            |                                                               |                    |                 |             |                                                   |                 |                |      |       |     |       |       |     |     |       |  |  |  |  |
| 77                                                                                                             | SKG16.3 : Grounding Program, L2                                     | 2   | Refer to 16.3 (Process Technology) Calendar |          |             |            |                                                               |                    |                 |             |                                                   |                 |                |      |       |     |       |       |     |     |       |  |  |  |  |
| 78                                                                                                             | SKG16.3 : Safety in Process Design & Operations, L2                 | 2   | Refer to 16.3 (Process Technology) Calendar |          |             |            |                                                               |                    |                 |             |                                                   |                 |                |      |       |     |       |       |     |     |       |  |  |  |  |
| 79                                                                                                             | SKG16.3 : SKG18 Incident Investigation, L2                          | 2   | Refer to SKG18 Calendar                     |          |             |            |                                                               |                    |                 |             |                                                   |                 |                |      |       |     |       |       |     |     |       |  |  |  |  |
| 80                                                                                                             | SKG16.3 : HAZOP Leader, L3                                          | 3   | Refer to 16.3 (Process Technology) Calendar |          |             |            |                                                               |                    |                 |             |                                                   |                 |                |      |       |     |       |       |     |     |       |  |  |  |  |
| Process Safety- Programmes for E2                                                                              |                                                                     |     |                                             |          |             |            |                                                               |                    |                 |             |                                                   |                 |                |      |       |     |       |       |     |     |       |  |  |  |  |
| 81                                                                                                             | SKG16.3 : Hazardous Area Classification, Level 2 (VILT)             | 2   | VILT                                        | MS Teams | Yes         | 2,380      | 9                                                             | 15                 | 3               | Coming Soon |                                                   |                 |                |      | 17-19 |     |       |       |     |     |       |  |  |  |  |
| 82                                                                                                             | SKG16.3 : HAZID & What If Technique, Level 2                        | 2   | F2F (NR)                                    | KL       | Yes         | 4,210      | 7                                                             | 20                 | 2               | Coming Soon | <a href="#">Upon Request ( Click to Enquire )</a> |                 |                |      |       |     |       |       |     |     |       |  |  |  |  |
| 83                                                                                                             | SKG16.3 : HAZID & What If Technique, Level 2 (VILT)                 | 2   | VILT                                        | MS Teams | Yes         | 2,250      | 9                                                             | 15                 | 2               | Coming Soon |                                                   |                 |                |      |       |     |       | 7-8   |     |     |       |  |  |  |  |
| 84                                                                                                             | SKG16.3 : LOPA, Level 2 (VILT)                                      | 2   | VILT                                        | MS Teams | Coming Soon | 1,720      | 9                                                             | 15                 | 2               | Coming Soon |                                                   |                 |                |      |       |     |       |       |     | 1-2 |       |  |  |  |  |
| 85                                                                                                             | SKG16.3 : QRA & Consequence Modelling, Level 3 (VILT)               | 3   | VILT                                        | MS Teams | Yes         | 3,170      | 9                                                             | 20                 | 3               | Coming Soon |                                                   |                 | 29-31          |      |       |     |       |       |     |     |       |  |  |  |  |
| SKG16.4 Plant Improvement & Optimisation                                                                       |                                                                     |     |                                             |          |             |            |                                                               |                    |                 |             |                                                   |                 |                |      |       |     |       |       |     |     |       |  |  |  |  |
| Advance Process Control - Programmes for E1                                                                    |                                                                     |     |                                             |          |             |            |                                                               |                    |                 |             |                                                   |                 |                |      |       |     |       |       |     |     |       |  |  |  |  |
| 86                                                                                                             | SKG16.4 : Grounding Program, L2                                     | 2   | Refer to 16.3 (Process Technology) Calendar |          |             |            |                                                               |                    |                 |             |                                                   |                 |                |      |       |     |       |       |     |     |       |  |  |  |  |
| 87                                                                                                             | SKG16.4 : Instrumentation for Process Control, Level 2              | 2   | F2F (NR)                                    | KL       | Yes         | 6,630      | 6                                                             | 20                 | 3               | Coming Soon |                                                   |                 |                |      |       |     |       |       |     |     | 13-15 |  |  |  |  |
| 88                                                                                                             | SKG16.4 : Introduction to Multivariable Predictive Control, Level 2 | 2   | F2F (NR)                                    | KL       | Yes         | 5,880      | 5                                                             | 20                 | 2               | Coming Soon |                                                   |                 |                |      |       |     |       | 4-5   |     |     |       |  |  |  |  |
| 89                                                                                                             | SKG16.4 : MPC Implementation, Level 2                               | 2   | F2F (NR)                                    | KL       | Yes         | 7,260      | 6                                                             | 20                 | 4               | Coming Soon |                                                   |                 |                |      |       |     | 22-25 |       |     |     |       |  |  |  |  |
| 90                                                                                                             | SKG16.4 : Process Control Theory and Application, Level 2           | 2   | F2F (NR)                                    | KL       | Yes         | 7,250      | 9                                                             | 20                 | 5               | Coming Soon |                                                   |                 | 21-25          |      |       |     | 8-12  |       |     |     |       |  |  |  |  |
| 91                                                                                                             | SKG16.4 : Process Control Theory and Application, Level 2 (VILT)    | 2   | VILT                                        | MS Teams | Yes         | 3,690      | 9                                                             | 15                 | 5               | Coming Soon |                                                   |                 |                |      |       |     | 18-22 |       |     |     |       |  |  |  |  |
| 92                                                                                                             | SKG16.4 : Regression and First Principle Inference, Level 2         | 2   | F2F (NR)                                    | KL       | Yes         | 7,490      | 6                                                             | 20                 | 4               | Coming Soon | <a href="#">Upon Request ( Click to Enquire )</a> |                 |                |      |       |     |       |       |     |     |       |  |  |  |  |
| Advance Process Control - Programmes for E2                                                                    |                                                                     |     |                                             |          |             |            |                                                               |                    |                 |             |                                                   |                 |                |      |       |     |       |       |     |     |       |  |  |  |  |
| 93                                                                                                             | SKG16.4 : Advanced Technique in PID Control, Level 3                | 3   | F2F (NR)                                    | KL       | Yes         | 8,000      | 8                                                             | 20                 | 4               | Coming Soon |                                                   |                 |                |      |       |     |       | 12-15 |     |     |       |  |  |  |  |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

# SKG16: Process Operations

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br>yusuf.hussain@petronas.com.my |                                                                        | Level | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022                                              |     |     |     |     |                |       |     |               |     |     |             |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|---------------------------------------------------|-----|-----|-----|-----|----------------|-------|-----|---------------|-----|-----|-------------|
|                                                                                                                |                                                                        |       |            |                                                               |                    |                 |         |         |                 |                | Jan                                               | Feb | Mar | Apr | May | June           | July  | Aug | Sept          | Oct | Nov | Dec         |
| Process Simulation & Optimisation - Programmes for E1                                                          |                                                                        |       |            |                                                               |                    |                 |         |         |                 |                |                                                   |     |     |     |     |                |       |     |               |     |     |             |
| 94                                                                                                             | SKG16.4 : Grounding Program, L2                                        | 2     |            |                                                               |                    |                 |         |         |                 |                | Refer to 16.3 (Process Technology) Calendar       |     |     |     |     |                |       |     |               |     |     |             |
| 95                                                                                                             | SKG16.4 : iCON Basic Training, Level 2                                 | 2     | F2F (NR)   | INSTEP/ Bangi                                                 | Yes                | 6,530           | 12      | 20      | 5               | Coming Soon    |                                                   |     |     |     |     | 12-16 (INSTEP) |       |     | 26-30 (Bangi) |     |     | 5-9 (Bangi) |
| 96                                                                                                             | SKG16.4 : iCON Basic Training, Level 2 (VILT)                          | 2     | VILT       | MS Teams                                                      | Yes                | 3,220           | 9       | 15      | 5               | Coming Soon    |                                                   |     |     |     |     |                | 18-22 |     |               |     |     |             |
| 97                                                                                                             | SKG16.4 : Instrumentation for Process Control, L2                      | 2     |            |                                                               |                    |                 |         |         |                 |                | Refer to 16.4 (Advance Process Control) Calendar  |     |     |     |     |                |       |     |               |     |     |             |
| 98                                                                                                             | SKG16.4 : Plant Performance Monitoring & Optimisation, L2              | 2     |            |                                                               |                    |                 |         |         |                 |                | Refer to 16.3 (Process Technology) Calendar       |     |     |     |     |                |       |     |               |     |     |             |
| 99                                                                                                             | SKG16.4 : Process Control Theory and Application, L2                   | 2     |            |                                                               |                    |                 |         |         |                 |                | Refer to 16.4 (Advance Process Control) Calendar  |     |     |     |     |                |       |     |               |     |     |             |
| 100                                                                                                            | SKG16.4 : Regression and First Principle Inference, L2                 | 2     |            |                                                               |                    |                 |         |         |                 |                | Refer to 16.4 (Advance Process Control) Calendar  |     |     |     |     |                |       |     |               |     |     |             |
| 101                                                                                                            | SKG16.4 : Surface Production Facilities – Oil/Water & Gas Handling, L2 | 2     |            |                                                               |                    |                 |         |         |                 |                | Refer to 16.2 (Production Planning) Calendar      |     |     |     |     |                |       |     |               |     |     |             |
| Process Simulation & Optimisation - Programmes for E2                                                          |                                                                        |       |            |                                                               |                    |                 |         |         |                 |                |                                                   |     |     |     |     |                |       |     |               |     |     |             |
| 102                                                                                                            | SKG16.4 : Safety in Process Design & Operations, L2                    | 2     |            |                                                               |                    |                 |         |         |                 |                | Refer to 16.3 (Process Technology) Calendar       |     |     |     |     |                |       |     |               |     |     |             |
| 103                                                                                                            | SKG16.4 : Advance Oil & Gas Handling (Surface), L3                     | 3     |            |                                                               |                    |                 |         |         |                 |                | Refer to 16.1 (Operations Management) Calendar    |     |     |     |     |                |       |     |               |     |     |             |
| 104                                                                                                            | SKG16.4 : Advanced Simulation including Dynamics, L3                   | 3     |            |                                                               |                    |                 |         |         |                 |                | <a href="#">Upon Request ( Click to Enquire )</a> |     |     |     |     |                |       |     |               |     |     |             |
| 105                                                                                                            | SKG16.4 : Distillation Design & Operations, L3                         | 3     |            |                                                               |                    |                 |         |         |                 |                | Refer to 16.3 (Process Technology) Calendar       |     |     |     |     |                |       |     |               |     |     |             |

# SKG16: Process Operations

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br>yusuf.hussain@petronas.com.my |                                                                        | Level | Prog. Type                                                      | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |     |     |     |      |       |     |      |       |     |     |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------|-----------------------------------------------------------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-----|-----|-----|------|-------|-----|------|-------|-----|-----|
|                                                                                                                |                                                                        |       |                                                                 |                                                               |                    |                 |         |         |                 |                | Jan  | Feb | Mac | Apr | May | June | July  | Aug | Sept | Oct   | Nov | Dec |
| SKG16.5 Process Engineering/Design                                                                             |                                                                        |       |                                                                 |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| Process Engineering - Programmes for E1                                                                        |                                                                        |       |                                                                 |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 106                                                                                                            | SKG16.5 : iCON Basic Training by GTS                                   | 2     | Refer to 16.4 (Plant Simulation & Optimization) Calendar        |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 107                                                                                                            | SKG16.5 : Flow Assurance Masterclass                                   | 2     | F2F (NR)                                                        | KL                                                            | Coming Soon        | 4,840           | 7       | 20      | 4               | Coming Soon    |      |     |     |     |     |      | 25-28 |     |      |       |     |     |
| 108                                                                                                            | SKG16.5 : PVT & EOS                                                    | 2     | F2F (NR)                                                        | KL                                                            | Coming Soon        | 8,810           | 7       | 20      | 5               | Coming Soon    |      |     |     |     |     |      |       |     |      | 24-28 |     |     |
| 109                                                                                                            | SKG16.5 : Safety in Process Design & Operations, L2                    | 2     | Refer to 16.3 (Process Technology) Calendar                     |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 110                                                                                                            | SKG16.5 : Surface Production Facilities - Oil/Water & Gas Handling, L2 | 2     | Refer to 16.2 (Upstream) Calendar                               |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 111                                                                                                            | SKG16.5 : Upstream Induction and Grounding Program                     | 2     | <a href="#">Upon Request (Click to Enquire)</a>                 |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| Process Engineering - Programmes for E1                                                                        |                                                                        |       |                                                                 |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 112                                                                                                            | SKG16.5 : Advance Oil & Gas Handling (Surface), L3                     | 3     | Refer to 16.1 (Upstream) Calendar                               |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 113                                                                                                            | SKG16.5 : HAZOP Leader, L3                                             | 3     | Refer to 16.3 (Process Technology) Calendar                     |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| Process Design - Programmes for E1                                                                             |                                                                        |       |                                                                 |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 114                                                                                                            | SKG16.5 : iCON Basic Training by GTS                                   | 2     | Refer to 16.4 (Plant Simulation & Optimization) Calendar        |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 115                                                                                                            | SKG16.5 : Flow Assurance Masterclass                                   |       | Refer to 16.5 (Process Engineering - Programme for E1) Calendar |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 116                                                                                                            | SKG16.5 : Process Control Theory and Application                       | 2     | Refer to 16.1 (Downstream) Calendar                             |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 117                                                                                                            | SKG16.5 : Grounding Program, L2                                        | 2     | Refer to 16.3 (Process Technology) Calendar                     |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 118                                                                                                            | SKG16.5 : Safety in Process Design & Operations, L2                    | 2     | Refer to 16.3 (Process Technology) Calendar                     |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 119                                                                                                            | SKG16.5 : Surface Production Facilities - Oil/Water & Gas Handling, L2 | 2     | Refer to 16.2 (Production Planning) Calendar                    |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| Process Design - Programmes for E2                                                                             |                                                                        |       |                                                                 |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 120                                                                                                            | SKG16.5 : SKG13: Basic Apply of Ex-Equipment                           |       | Refer to SKG 13 Calendar                                        |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 121                                                                                                            | SKG16.5 : Distillation Design & Operations, L3                         | 3     | Refer to 16.3 (Process Technology) Calendar                     |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 122                                                                                                            | SKG16.5 : Plant Performance Monitoring & Optimisation, L2              | 2     | Refer to 16.3 (Process Technology) Calendar                     |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 123                                                                                                            | SKG16.5 : Process Risk Assessment & Tools, L3                          | 3     | Refer to 16.3 (Process Technology) Calendar                     |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |
| 124                                                                                                            | SKG16.5 : HAZOP Leader, L3                                             | 3     | Refer to 16.3 (Process Technology) Calendar                     |                                                               |                    |                 |         |         |                 |                |      |     |     |     |     |      |       |     |      |       |     |     |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes



# SKG16: Process Operations

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br>yusuf.hussain@petronas.com.my |                                                                                     | Level | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |       |       |     |       |       |     |      |     |       |     |  |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-------|-------|-----|-------|-------|-----|------|-----|-------|-----|--|
|                                                                                                                |                                                                                     |       |            |                                                               |                    |                 |         |         |                 |                | Jan  | Feb | Mac   | Apr   | May | June  | July  | Aug | Sept | Oct | Nov   | Dec |  |
| SKG16.6 Analytical And Product & Application Technology                                                        |                                                                                     |       |            |                                                               |                    |                 |         |         |                 |                |      |     |       |       |     |       |       |     |      |     |       |     |  |
| Analytical Technology - Programmes for E1                                                                      |                                                                                     |       |            |                                                               |                    |                 |         |         |                 |                |      |     |       |       |     |       |       |     |      |     |       |     |  |
| 125                                                                                                            | SKG16.6 : Analytical Equipment: Chromatography and Spectroscopy Part 1 & 2, Level 2 | 2     | F2F (NR)   | Melaka                                                        | Coming Soon        | 6,690           | 5       | 20      | 5               | Coming Soon    |      |     |       |       |     | 20-24 |       |     |      |     |       |     |  |
| 126                                                                                                            | SKG16.6 : Lab Safety, Level 2 (VILT)                                                | 2     | VILT       | MS Teams                                                      | Yes                | 3,570           | 6       | 10      | 4               | Coming Soon    |      |     | 28-31 |       |     |       |       |     |      |     |       |     |  |
| 127                                                                                                            | SKG16.6 : Method and Standards for Sampling and Testing, Level 2 (VILT)             | 2     | VILT       | MS Teams                                                      | Yes                | 3,570           | 6       | 10      | 4               | Coming Soon    |      |     |       | 23-26 |     |       |       |     |      |     |       |     |  |
| Analytical Technology - Programmes for E2                                                                      |                                                                                     |       |            |                                                               |                    |                 |         |         |                 |                |      |     |       |       |     |       |       |     |      |     |       |     |  |
| 128                                                                                                            | SKG16.6 : Statistics, Calibration and Method Validation, Level 2                    | 2     | F2F (NR)   | KL                                                            | Coming Soon        | 6,710           | 6       | 20      | 4               | Coming Soon    |      |     |       |       |     | 13-16 |       |     |      |     |       |     |  |
| 129                                                                                                            | SKG16.6 : Advanced Atomic Absorption, Level 3                                       | 3     | F2F (NR)   | Putrajaya                                                     | Coming Soon        | 7,000           | 7       | 20      | 5               | Coming Soon    |      |     |       |       |     |       |       | 5-9 |      |     |       |     |  |
| 130                                                                                                            | SKG16.6 : Advanced Gas Chromatography, Level 3                                      | 3     | F2F (NR)   | Putrajaya                                                     | Coming Soon        | 6,400           | 5       | 20      | 5               | Coming Soon    |      |     |       |       |     |       | 22-25 |     |      |     |       |     |  |
| 131                                                                                                            | SKG16.6 : Advanced XRF Training, Level 3                                            | 3     | F2F (NR)   | Kerteh                                                        | Coming Soon        | 9,530           | 5       | 20      | 3               | Coming Soon    |      |     |       |       |     |       |       |     |      |     | 28-30 |     |  |

# SKG18: Health, Safety & Environment Programme

| Programme Leader:<br>Raja Surida Bt Saiful Bahri<br>+609-668 6346<br>+6016-333 4094<br>rajasurida.sb@petronas.com.my |                                                                | Level | Prog. Type | Venue    | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022                            |       |     |       |       |       |       |      |       |       |     |       |
|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------|------------|----------|--------------------|-----------------|---------|---------|-----------------|----------------|---------------------------------|-------|-----|-------|-------|-------|-------|------|-------|-------|-----|-------|
|                                                                                                                      |                                                                |       |            |          |                    |                 |         |         |                 |                | Jan                             | Feb   | Mac | Apr   | May   | June  | July  | Aug  | Sept  | Oct   | Nov | Dec   |
| SKG18 - Core Generic                                                                                                 |                                                                |       |            |          |                    |                 |         |         |                 |                |                                 |       |     |       |       |       |       |      |       |       |     |       |
| 1                                                                                                                    | SKG18 : First Line HSEMS Assurance, L2 (VILT)                  | 2     | VILT       | MS Teams | Coming Soon        | 2,320           | 8       | 20      | 2               | Coming Soon    |                                 |       |     |       |       |       | 4-5   |      |       |       |     |       |
| 2                                                                                                                    | SKG18 : HSE Management System (HSE MS), L2                     | 2     | F2F (NR)   | KL       | Yes                | 5,070           | 8       | 20      | 4               | Coming Soon    |                                 |       |     |       |       |       |       |      |       | 3-6   |     |       |
| 3                                                                                                                    | SKG18 : HSE Management System (HSE MS), L2 (VILT)              | 2     | VILT       | MS Teams | Coming Soon        | 4,140           | 8       | 20      | 4               | Coming Soon    |                                 |       |     |       |       |       |       | 1-4  |       |       |     |       |
| SKG18.0 - General HSE                                                                                                |                                                                |       |            |          |                    |                 |         |         |                 |                |                                 |       |     |       |       |       |       |      |       |       |     |       |
| 4                                                                                                                    | SKG18 : Environmental Management, L2 (VILT)                    | 2     | VILT       | MS Teams | Coming Soon        | 1,910           | 5       | 15      | 3               | Coming Soon    |                                 |       |     |       |       |       | 21-23 |      |       |       |     |       |
| 5                                                                                                                    | SKG18 : Incident Management, L2                                | 2     | F2F (NR)   | KL       | Coming Soon        | 2,980           | 8       | 20      | 2               | Coming Soon    |                                 |       |     |       |       |       |       |      |       |       |     | 12-13 |
| 6                                                                                                                    | SKG18 : Incident Management, L2 (VILT)                         | 2     | VILT       | MS Teams | Coming Soon        | 2,320           | 8       | 20      | 2               | Coming Soon    |                                 | 16-17 |     |       |       | 13-14 |       |      |       |       |     |       |
| 7                                                                                                                    | SKG18 : Management of Contractor HSE, L2 (VILT)                | 2     | VILT       | MS Teams | Coming Soon        | 2,320           | 8       | 20      | 2               | Coming Soon    |                                 |       | 2-3 |       |       |       |       |      |       |       |     |       |
| 8                                                                                                                    | SKG18 : Management of Hazardous Chemicals and Waste, L2 (VILT) | 2     | VILT       | MS Teams | Yes                | 1,910           | 5       | 20      | 3               | Coming Soon    |                                 |       |     |       |       |       |       |      |       | 11-13 |     |       |
| 9                                                                                                                    | SKG18 : Safe System of Work, L2 (VILT)                         | 2     | VILT       | MS Teams | Yes                | 3,230           | 8       | 20      | 3               | Coming Soon    |                                 |       |     |       |       |       |       | 9-11 |       |       |     |       |
| 10                                                                                                                   | SKG18 : Behavioral Safety, L3 (VILT)                           | 3     | VILT       | MS Teams | Yes                | 2,320           | 8       | 10      | 2               | Coming Soon    |                                 |       |     |       | 18-19 |       |       |      |       |       |     |       |
| SKG18.0.1 - Emergency Management                                                                                     |                                                                |       |            |          |                    |                 |         |         |                 |                |                                 |       |     |       |       |       |       |      |       |       |     |       |
| 11                                                                                                                   | SKG18 : Emergency Management, L2 (VILT)                        | 2     | VILT       | MS Teams | Yes                | 2,320           | 8       | 20      | 2               | Coming Soon    |                                 |       |     | 4-5   |       |       |       |      |       |       |     |       |
| 12                                                                                                                   | SKG18 : Fire Protection & Prevention, L3 (VILT)                | 3     | VILT       | MS Teams | Yes                | 1,470           | 4       | 15      | 3               | Coming Soon    | Refer to SKG18.1.3 Fire Safety  |       |     |       |       |       |       |      |       |       |     |       |
| 13                                                                                                                   | SKG18 : Fire Risk Assessment (FRA), L3 (VILT)                  | 3     | VILT       | MS Teams | Yes                | 1,910           | 4       | 10      | 3               | Coming Soon    |                                 |       |     |       |       |       |       |      |       |       |     |       |
| SKG18.1.1 - Operation Safety                                                                                         |                                                                |       |            |          |                    |                 |         |         |                 |                |                                 |       |     |       |       |       |       |      |       |       |     |       |
| 14                                                                                                                   | SKG18 : Human Factors in Operation and Maintenance, L2 (VILT)  | 2     | VILT       | MS Teams | Coming Soon        | 1,610           | 8       | 10      | 2               | Coming Soon    | Upon Request (Click to Enquire) |       |     |       |       |       |       |      |       |       |     |       |
| 15                                                                                                                   | SKG18 : Inherent Safety, L3 (VILT)                             | 3     | VILT       | MS Teams | Coming Soon        | 2,320           | 8       | 10      | 2               | Coming Soon    |                                 |       |     |       |       |       |       |      |       |       |     |       |
| 16                                                                                                                   | SKG18 : Managing Major Hazard, L3 (VILT)                       | 3     | VILT       | MS Teams | Yes                | 1,610           | 8       | 15      | 2               | Coming Soon    |                                 |       |     | 20-21 |       |       |       |      |       |       |     |       |
| 17                                                                                                                   | SKG18 : Operational Safety Management (OSM), L3 (VILT)         | 3     | VILT       | MS Teams | Coming Soon        | 2,160           | 8       | 10      | 3               | Coming Soon    |                                 |       |     |       |       |       | 26-28 |      |       |       |     |       |
| 18                                                                                                                   | SKG18 : Process Safety Management (PSM), L3 (VILT)             | 3     | VILT       | MS Teams | Yes                | 2,160           | 8       | 10      | 3               | Coming Soon    |                                 |       |     |       |       |       |       |      | 20-22 |       |     |       |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

# SKG18: Health, Safety & Environment Programme

| Programme Leader:<br>Raja Surida Bt Saiful Bahri<br>+609-668 6346<br>+6016-333 4094<br>rajasurida.sb@petronas.com.my |                                                                       |   |      | Level    | Prog. Type  | Venue | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax     | Duration (Days)                     | MBOT CPD Hours | 2022 |       |     |       |       |       |      |       |      |     |     |     |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---|------|----------|-------------|-------|--------------------|-----------------|---------|-------------|-------------------------------------|----------------|------|-------|-----|-------|-------|-------|------|-------|------|-----|-----|-----|
|                                                                                                                      |                                                                       |   |      |          |             |       |                    |                 |         |             |                                     |                | Jan  | Feb   | Mac | Apr   | May   | June  | July | Aug   | Sept | Oct | Nov | Dec |
| SKG18.1.3 – Fire Safety                                                                                              |                                                                       |   |      |          |             |       |                    |                 |         |             |                                     |                |      |       |     |       |       |       |      |       |      |     |     |     |
| 19                                                                                                                   | SKG18 : Fire Protection & Prevention, L3 (VILT)                       | 3 | VILT | MS Teams | Yes         | 1470  | 4                  | 15              | 3       | Coming Soon |                                     |                |      |       |     |       | 16-18 |       |      |       |      |     |     |     |
| 20                                                                                                                   | SKG18 : Fire Risk Assessment (FRA), L3 (VILT)                         | 3 | VILT | MS Teams | Yes         | 1,910 | 4                  | 10              | 3       | Coming Soon |                                     |                |      |       |     | 28-30 |       |       |      |       |      |     |     |     |
| SKG18.2 - Environment                                                                                                |                                                                       |   |      |          |             |       |                    |                 |         |             |                                     |                |      |       |     |       |       |       |      |       |      |     |     |     |
| 21                                                                                                                   | SKG18 : Air Emission Management, L3 (VILT)                            | 3 | VILT | MS Teams | Coming Soon | 1,910 | 4                  | 10              | 3       | Coming Soon |                                     |                |      |       |     |       |       | 27-29 |      |       |      |     |     |     |
| 22                                                                                                                   | SKG18 : Environmental Risk Assessment EAI & HER, L3 (VILT)            | 3 | VILT | MS Teams | Coming Soon | 1,610 | 4                  | 10              | 3       | Coming Soon |                                     |                |      |       |     |       | 13-14 |       |      |       |      |     |     |     |
| 23                                                                                                                   | SKG18 : Environmental Management, L2 (VILT)                           | 2 | VILT | MS Teams | Coming Soon | 1,910 | 5                  | 15              | 3       | Coming Soon | Refer to SKG18.0 General HSE        |                |      |       |     |       |       |       |      |       |      |     |     |     |
| 24                                                                                                                   | SKG18 : Project Environment Management, L3 (VILT)                     | 3 | VILT | MS Teams | Yes         | 1,910 | 4                  | 10              | 3       | Coming Soon |                                     |                |      |       |     |       |       | 23-25 |      |       |      |     |     |     |
| 25                                                                                                                   | SKG18 : Spill Management and Contaminated Sites Management, L3 (VILT) | 3 | VILT | MS Teams | Yes         | 1,910 | 4                  | 10              | 3       | Coming Soon |                                     |                |      |       |     |       | 26-28 |       |      |       |      |     |     |     |
| 26                                                                                                                   | SKG18 : Water & Waste Water Management, L3 (VILT)                     | 3 | VILT | MS Teams | Yes         | 1,910 | 4                  | 10              | 3       | Coming Soon |                                     |                |      |       |     |       |       | 6-8   |      |       |      |     |     |     |
| SKG18.3 – Industrial Hygiene                                                                                         |                                                                       |   |      |          |             |       |                    |                 |         |             |                                     |                |      |       |     |       |       |       |      |       |      |     |     |     |
| 27                                                                                                                   | SKG18 : Engineering & Control Technology, L3 (VILT)                   | 3 | VILT | MS Teams | Yes         | 1,910 | 4                  | 10              | 3       | Coming Soon |                                     |                |      | 26-28 |     |       |       |       |      |       |      |     |     |     |
| 28                                                                                                                   | SKG18 : Ergonomics & Workplace Design, L3 (VILT)                      | 3 | VILT | MS Teams | Yes         | 1,910 | 4                  | 10              | 3       | Coming Soon |                                     |                |      |       |     |       |       |       | 4-6  |       |      |     |     |     |
| 29                                                                                                                   | SKG18 : Fundamental of OH and IH, L2 (VILT)                           | 2 | VILT | MS Teams | Coming Soon | 1,910 | 5                  | 15              | 3       | Coming Soon |                                     |                |      |       |     |       | 5-7   |       |      |       |      |     |     |     |
| 30                                                                                                                   | SKG18 : Health Risk Assessment (HRA), L3 (VILT)                       | 3 | VILT | MS Teams | Yes         | 1,910 | 4                  | 10              | 3       | Coming Soon |                                     |                |      |       |     | 14-16 |       |       |      |       |      |     |     |     |
| 31                                                                                                                   | SKG18 : SHOC & HCA TTT, L3 (VILT)                                     | 3 | VILT | MS Teams | Coming Soon | 3,670 | 5                  | 10              | 4       | Coming Soon |                                     |                |      |       |     |       |       |       |      | 14-17 |      |     |     |     |
| SKG18.4 – Occupational Health                                                                                        |                                                                       |   |      |          |             |       |                    |                 |         |             |                                     |                |      |       |     |       |       |       |      |       |      |     |     |     |
| 32                                                                                                                   | SKG18 : Fundamental of OH and IH, L2 (VILT)                           | 2 | VILT | MS Teams | Coming Soon | 1,910 | 5                  | 15              | 3       | Coming Soon | Refer to SKG18.3 Industrial Hygiene |                |      |       |     |       |       |       |      |       |      |     |     |     |
| SKG18.7 – Climate Change                                                                                             |                                                                       |   |      |          |             |       |                    |                 |         |             |                                     |                |      |       |     |       |       |       |      |       |      |     |     |     |
| 33                                                                                                                   | SKG18 : GHG Inventory & Reporting, L3 (VILT)                          | 3 | VILT | MS Teams | Coming Soon | 1,610 | 4                  | 10              | 2       | Coming Soon |                                     |                |      | 13-14 |     |       |       |       |      |       |      |     |     |     |



# SKG19: Project Management

| Programme Leader:<br>M Naim Abu<br>+6013-574 9697<br>mnaim.abu@petronas.com.my |                                                                                               |                             | Level | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |     |     |     |       |       |       |      |       |     |     |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------|-------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-----|-----|-----|-------|-------|-------|------|-------|-----|-----|
|                                                                                |                                                                                               |                             |       |            |                                                               |                    |                 |         |         |                 |                | Jan  | Feb | Mar | Apr | May | June  | July  | Aug   | Sept | Oct   | Nov | Dec |
| 1                                                                              | SKG19 : PM3 Project Time Management , L1                                                      | UPDATED FEE<br>UPDATED DATE | 1     | F2F (NR)   | KL                                                            | Coming Soon        | 1,710           | 20      | 25      | 2               | Coming Soon    |      |     |     |     |     |       |       | 9-10  |      |       |     |     |
| 2                                                                              | SKG19 : PM4 Project Cost Management, L1                                                       | UPDATED FEE<br>UPDATED DATE | 1     | F2F (NR)   | KL                                                            | Coming Soon        | 1,710           | 20      | 25      | 2               | Coming Soon    |      |     |     |     |     |       |       | 16-17 |      |       |     |     |
| 3                                                                              | SKG19 : Process Schematic and P&ID, L1                                                        |                             | 1     | F2F (NR)   | INSTEP*                                                       | Yes                | 2,700           | 20      | 25      | 3               | Coming Soon    |      |     |     |     |     | 14-16 |       |       |      |       |     |     |
| 4                                                                              | SKG19 : Project Management Essentials, L1 (VILT)                                              |                             | 1     | VILT       | MS Teams                                                      | Yes                | 3,200           | 15      | 20      | 5               | Coming Soon    |      |     |     |     |     | 20-24 |       |       |      |       |     |     |
| 5                                                                              | SKG19 : Safety Process Design Application in Plant Commissioning & Start up (SPDA), L1 (VILT) |                             | 1     | VILT       | MS Teams                                                      | Coming Soon        | 2,080           | 10      | 15      | 3               | Coming Soon    |      |     |     |     |     |       | 26-28 |       |      |       |     |     |
| 6                                                                              | SKG19 : SIMOPS, L1 (VILT)                                                                     | UPDATED DATE                | 1     | VILT       | MS Teams                                                      | Coming Soon        | 770             | 15      | 20      | 2               | Coming Soon    |      |     |     |     |     |       | 5-6   |       |      |       |     |     |
| 7                                                                              | SKG19 : PM1 Project Integration Management, L2                                                | UPDATED FEE<br>UPDATED DATE | 2     | F2F (NR)   | KL                                                            | Yes                | 2,210           | 20      | 25      | 2               | Coming Soon    |      |     |     |     |     |       |       | 11-12 |      |       |     |     |
| 8                                                                              | SKG19 : PM2 Project Scope Management, L2 (VILT)                                               | UPDATED DATE                | 2     | VILT       | MS Teams                                                      | Yes                | 1,560           | 15      | 20      | 2               | Coming Soon    |      |     |     |     |     |       | 26-27 |       |      |       |     |     |
| 9                                                                              | SKG19 : PM3 Project Time Management , L2 (VILT)                                               |                             | 2     | VILT       | MS Teams                                                      | Coming Soon        | 1,560           | 15      | 20      | 2               | Coming Soon    |      |     |     |     |     | 7-8   |       |       |      |       |     |     |
| 10                                                                             | SKG19 : PM4 Project Cost Management, L2 (VILT)                                                |                             | 2     | VILT       | MS Teams                                                      | Coming Soon        | 1,560           | 15      | 20      | 2               | Coming Soon    |      |     |     |     |     |       | 19-20 |       |      |       |     |     |
| 11                                                                             | SKG19 : PM5 Project Quality Management, L2                                                    | UPDATED FEE                 | 2     | F2F (NR)   | KL                                                            | Coming Soon        | 2,210           | 20      | 25      | 2               | Coming Soon    |      |     |     |     |     |       |       | 9-10  |      |       |     |     |
| 12                                                                             | SKG19 : PM6 Project Organization & Manning Management, L2                                     |                             | 2     | F2F (NR)   | KL                                                            | Coming Soon        | 2,210           | 15      | 25      | 2               | Coming Soon    |      |     |     |     |     |       |       | 16-17 |      |       |     |     |
| 13                                                                             | SKG19 : PM7 Project Communication Management, L2                                              | UPDATED FEE                 | 2     | F2F (NR)   | KL                                                            | Coming Soon        | 2,210           | 15      | 25      | 2               | Coming Soon    |      |     |     |     |     |       |       | 23-24 |      |       |     |     |
| 14                                                                             | SKG19 : PM8 Project Risk Management, L2                                                       | UPDATED FEE                 | 2     | F2F (NR)   | KL                                                            | Coming Soon        | 2,210           | 20      | 25      | 2               | Coming Soon    |      |     |     |     |     |       |       |       | 6-7  |       |     |     |
| 15                                                                             | SKG19 : PM9 Project Procurement Management, L2                                                | UPDATED FEE                 | 2     | F2F (NR)   | KL                                                            | Coming Soon        | 2,210           | 20      | 25      | 2               | Coming Soon    |      |     |     |     |     |       |       |       |      | 4-5   |     |     |
| 16                                                                             | SKG19 : PM10 Project HSE Management, L2                                                       | UPDATED FEE                 | 2     | F2F (NR)   | KL                                                            | Coming Soon        | 2,210           | 20      | 25      | 2               | Coming Soon    |      |     |     |     |     |       |       |       |      | 18-19 |     |     |
| 17                                                                             | SKG19 : Turnaround Management, L1/L2                                                          | UPDATED FEE<br>UPDATED DATE | 2     | F2F (NR)   | KL                                                            | Yes                | 2,260           | 15      | 20      | 2               | Coming Soon    |      |     |     |     |     |       |       |       |      | 25-26 |     |     |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

## SKG19: Project Management

| Programme Leader:<br>M Naim Abu<br>+6013-574 9697<br>mnaim.abu@petronas.com.my |                                                                  |                             | Level | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |     |     |     |       |      |       |      |     |     |     |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------|-------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-----|-----|-----|-------|------|-------|------|-----|-----|-----|
|                                                                                |                                                                  |                             |       |            |                                                               |                    |                 |         |         |                 |                | Jan  | Feb | Mac | Apr | May | June  | July | Aug   | Sept | Oct | Nov | Dec |
| 18                                                                             | SKG19 : PM1 Project Integration Management, L3 (VILT)            | UPDATED DATE                | 3     | VILT       | MS Teams                                                      | Yes                | 1,010           | 10      | 15      | 1               | Coming Soon    |      |     |     |     |     | 19    |      |       |      |     |     |     |
| 19                                                                             | SKG19 : PM2 Project Scope Management, L3                         | UPDATED FEE<br>UPDATED DATE | 3     | F2F (NR)   | KL                                                            | Yes                | 1,550           | 20      | 25      | 1               | Coming Soon    |      |     |     |     |     |       |      | 6     |      |     |     |     |
| 20                                                                             | SKG19 : PM3 Project Time Management , L3 (VILT)                  | UPDATED DATE                | 3     | VILT       | MS Teams                                                      | Coming Soon        | 1,010           | 10      | 15      | 1               | Coming Soon    |      |     |     |     |     | 19    |      |       |      |     |     |     |
| 21                                                                             | SKG19 : PM4 Project Cost Management, L3                          | UPDATED FEE<br>UPDATED DATE | 3     | F2F (NR)   | KL                                                            | Coming Soon        | 1,550           | 20      | 25      | 2               | Coming Soon    |      |     |     |     |     |       |      | 6     |      |     |     |     |
| 22                                                                             | SKG19 : PM5 Project Quality Management, L3 (VILT)                |                             | 3     | VILT       | MS Teams                                                      | Yes                | 1,010           | 10      | 15      | 1               | Coming Soon    |      |     |     |     |     |       | 11   |       |      |     |     |     |
| 23                                                                             | SKG19 : PM6 Project Organization & Manning Management, L3        | UPDATED FEE                 | 3     | F2F (NR)   | KL                                                            | Coming Soon        | 1,550           | 15      | 25      | 1               | Coming Soon    |      |     |     |     |     |       | 18   |       |      |     |     |     |
| 24                                                                             | SKG19 : PM7 Project Communication Management, L3 (VILT)          |                             | 3     | VILT       | MS Teams                                                      | Coming Soon        | 1,010           | 10      | 15      | 1               | Coming Soon    |      |     |     |     |     |       | 25   |       |      |     |     |     |
| 25                                                                             | SKG19 : PM8 Project Risk Management, L3                          | UPDATED FEE                 | 3     | F2F (NR)   | KL                                                            | Coming Soon        | 1,550           | 20      | 25      | 1               | Coming Soon    |      |     |     |     |     |       |      | 8     |      |     |     |     |
| 26                                                                             | SKG19 : PM9 Project Procurement Management, L3 (VILT)            |                             | 3     | VILT       | MS Teams                                                      | Coming Soon        | 1,010           | 10      | 15      | 2               | Coming Soon    |      |     |     |     |     | 28-29 |      |       |      |     |     |     |
| 27                                                                             | SKG19 : PM10 Project HSE Management, L3 (VILT)                   |                             | 3     | VILT       | MS Teams                                                      | Yes                | 1,010           | 10      | 15      | 1               | Coming Soon    |      |     |     |     |     |       |      |       | 20   |     |     |     |
| 28                                                                             | SKG19 : Project Management Professional (PMP) Preparation (VILT) |                             | 3     | VILT       | MS Teams                                                      | Coming Soon        | 4,320           | 15      | 20      | 5               | Coming Soon    |      |     |     |     |     |       |      | 26-30 |      |     |     |     |
| 29                                                                             | SKG19 : Turnaround Management, L3                                |                             | 3     | F2F (NR)   | KL                                                            | Yes                | 2,260           | 15      | 20      | 2               | Coming Soon    |      |     |     |     |     |       |      | 21-22 |      |     |     |     |

## SKG25: Drilling

| Programme Leader:<br>Mohamad Muaz Bin Abdul Rasid<br>+609-668 6148<br>+6016-656 9468<br>mohamadmuaz.abdrasi@petronas.com.my |                                                                             |   |          |          |             |        |    |    |   |             | 2022                            |     |            |     |     |      |         |         |         |         |     |     |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---|----------|----------|-------------|--------|----|----|---|-------------|---------------------------------|-----|------------|-----|-----|------|---------|---------|---------|---------|-----|-----|
|                                                                                                                             |                                                                             |   |          |          |             |        |    |    |   |             | Jan                             | Feb | Mar        | Apr | May | June | July    | Aug     | Sept    | Oct     | Nov | Dec |
| 1                                                                                                                           | SKG25 : Borehole Survey & Survey Mgmt Trg , L2 (VILT)                       | 2 | VILT     | MS Teams | Yes         | 1,260  | 5  | 20 | 3 | Coming Soon |                                 |     | 15-17      |     |     |      |         |         |         |         |     |     |
| 2                                                                                                                           | SKG25 : Casing Materials and Connection Selection, L2 (VILT)                | 2 | VILT     | MS Teams | Yes         | 1,870  | 5  | 20 | 5 | Coming Soon |                                 |     | 28/3 - 1/4 |     |     |      |         |         |         |         |     |     |
| 3                                                                                                                           | SKG25 : Cementing , L2 (VILT)                                               | 2 | VILT     | MS Teams | Yes         | 1,590  | 5  | 20 | 5 | Coming Soon |                                 |     |            |     |     |      | 18 - 22 |         |         |         |     |     |
| 4                                                                                                                           | SKG25 : Coiled Tubing Operation, L2                                         | 2 | F2F (NR) | Kemaman  | Coming Soon | 10,240 | 10 | 20 | 5 | Coming Soon |                                 |     |            |     |     |      |         |         |         | 21 - 25 |     |     |
| 5                                                                                                                           | SKG25 : Deepwater Drilling, L2 (VILT)                                       | 2 | VILT     | MS Teams | Coming Soon | 10,140 | 10 | 20 | 5 | Coming Soon | Upon Request (Click to enquire) |     |            |     |     |      |         |         |         |         |     |     |
| 6                                                                                                                           | SKG25 : Drilling & Completion Fluids , L2 (VILT)                            | 2 | VILT     | MS Teams | Coming Soon | 1,590  | 5  | 20 | 5 | Coming Soon |                                 |     |            |     |     |      |         |         |         |         |     |     |
| 7                                                                                                                           | SKG25 : Drilling for Non Driller, L2 (VILT)                                 | 2 | VILT     | MS Teams | Coming Soon | 3,970  | 5  | 10 | 2 | Coming Soon |                                 |     |            |     |     |      |         | 16 - 17 |         |         |     |     |
| 8                                                                                                                           | SKG25 : Electric Line Operation, L2                                         | 2 | F2F (NR) | Kemaman  | Coming Soon | 4,800  | 10 | 20 | 3 | Coming Soon |                                 |     |            |     |     |      |         |         | 26 - 28 |         |     |     |
| 9                                                                                                                           | SKG25 : Extended Reach Drilling, L2 (VILT)                                  | 2 | VILT     | MS Teams | Coming Soon | 9,590  | 10 | 20 | 3 | Coming Soon | Upon Request (Click to enquire) |     |            |     |     |      |         |         |         |         |     |     |
| 10                                                                                                                          | SKG25 : HPHT, L2 (VILT)                                                     | 2 | VILT     | MS Teams | Coming Soon | 10,140 | 10 | 20 | 5 | Coming Soon |                                 |     |            |     |     |      |         |         |         |         |     |     |
| 11                                                                                                                          | SKG25 : HSE in Drilling, L2 (VILT)                                          | 2 | VILT     | MS Teams | Coming Soon | 2,800  | 8  | 20 | 5 | Coming Soon | Upon Request (Click to enquire) |     |            |     |     |      |         |         |         |         |     |     |
| 12                                                                                                                          | SKG25 : IWCF Well Control, L2 (VILT)                                        | 2 | VILT     | MS Teams | Coming Soon | 6,940  | 5  | 6  | 5 | Coming Soon |                                 |     |            |     |     |      |         |         |         |         |     |     |
| 13                                                                                                                          | SKG25 : Manage Pressure Drilling (MPD) , L2 (VILT)                          | 2 | VILT     | MS Teams | Yes         | 1,420  | 5  | 20 | 2 | Coming Soon | Upon Request (Click to enquire) |     |            |     |     |      |         |         |         |         |     |     |
| 14                                                                                                                          | SKG25 : Plug & Abandonment Awareness, L2 (VILT)                             | 2 | VILT     | MS Teams | Coming Soon | 2,980  | 5  | 20 | 2 | Coming Soon |                                 |     |            |     |     |      |         |         |         |         |     |     |
| 15                                                                                                                          | SKG25 : Pore Pressure Prediction & Mechanical Borehole Stability, L2 (VILT) | 2 | VILT     | MS Teams | Coming Soon | 11,380 | 12 | 15 | 8 | Coming Soon |                                 |     | 14 - 24    |     |     |      |         |         |         |         |     |     |



## SKG25: Drilling

| Programme Leader:<br>Mohamad Muaz Bin Abdul Rasid<br>+609-668 6148<br>+6016-656 9468<br>mohamadmuaz.abdrasi@petronas.com.my |                                                          |     |          |          |             |        |    |    |   |             | 2022                                            |     |     |     |     |         |      |     |      |                |        |     |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----|----------|----------|-------------|--------|----|----|---|-------------|-------------------------------------------------|-----|-----|-----|-----|---------|------|-----|------|----------------|--------|-----|
|                                                                                                                             |                                                          |     |          |          |             |        |    |    |   |             | Jan                                             | Feb | Mar | Apr | May | June    | July | Aug | Sept | Oct            | Nov    | Dec |
| 16                                                                                                                          | SKG25 : Real Time Drilling (RTO), L2 (VILT)              | 2   | VILT     | MS Teams | Yes         | 1,870  | 8  | 15 | 5 | Coming Soon |                                                 |     |     |     |     |         |      |     |      | 31/10 - 4/11   |        |     |
| 17                                                                                                                          | SKG25 : Rig Equipment Inspection, L2 (VILT)              | 2   | VILT     | MS Teams | Coming Soon | 11,240 | 10 | 20 | 5 | Coming Soon | <a href="#">Upon Request (Click to enquire)</a> |     |     |     |     |         |      |     |      |                |        |     |
| 18                                                                                                                          | SKG25 : Sand Management & Control, L2 (VILT)             | 2   | VILT     | MS Teams | Coming Soon | 12,440 | 5  | 20 | 5 | Coming Soon |                                                 |     |     |     |     |         |      |     |      |                | 7 - 11 |     |
| 19                                                                                                                          | SKG25 : Slickline Operation, L2                          | 2   | F2F (NR) | Labuan   | Coming Soon | 9,290  | 6  | 12 | 5 | Coming Soon |                                                 |     |     |     |     |         |      |     |      | 10-14          |        |     |
| 20                                                                                                                          | SKG25 : Stuck Pipe Prevention & Fishing, L2 (VILT)       | 2   | VILT     | MS Teams | Coming Soon | 5,780  | 8  | 20 | 5 | Coming Soon | <a href="#">Upon Request (Click to enquire)</a> |     |     |     |     |         |      |     |      |                |        |     |
| 21                                                                                                                          | SKG25 : Well Completion, L2 (VILT)                       | 2   | VILT     | MS Teams | Coming Soon | 1,960  | 5  | 20 | 5 | Coming Soon |                                                 |     |     |     |     |         |      |     |      | 10-14<br>17-21 |        |     |
| 22                                                                                                                          | SKG25 : Well Engineering Software Application, L2 (VILT) | 2   | VILT     | MS Teams | Yes         | 2,440  | 4  | 5  | 5 | Coming Soon | <a href="#">Upon Request (Click to enquire)</a> |     |     |     |     |         |      |     |      |                |        |     |
| 23                                                                                                                          | SKG25 : Well Engineering, L2 (VILT)                      | 2   | VILT     | MS Teams | Coming Soon | 11,260 | 5  | 20 | 5 | Coming Soon |                                                 |     |     |     |     |         |      |     |      |                |        |     |
| 24                                                                                                                          | SKG25 : Well Integrity & Intervention , L2 (VILT)        | 2   | VILT     | MS Teams | Coming Soon | 6,060  | 5  | 20 | 5 | Coming Soon |                                                 |     |     |     |     | 20 - 24 |      |     |      |                |        |     |
| 25                                                                                                                          | SKG25 : Wellhead Preventive Maintenance, L2              | 2   | F2F (NR) | Miri     | Coming Soon | 7,560  | 8  | 12 | 3 | Coming Soon | <a href="#">Upon Request (Click to enquire)</a> |     |     |     |     |         |      |     |      |                |        |     |
| 26                                                                                                                          | SKG25 : Advance Drilling Fluid, L3 (VILT)                | 3   | VILT     | MS Teams | Yes         | 1,870  | 5  | 20 | 5 | Coming Soon | <a href="#">Upon Request (Click to enquire)</a> |     |     |     |     |         |      |     |      |                |        |     |
| 27                                                                                                                          | SKG25 : Advanced Cementing, L3 (VILT)                    | 3   | VILT     | MS Teams | Yes         | 1,870  | 5  | 20 | 5 | Coming Soon |                                                 |     |     |     |     |         |      |     |      |                | 7 - 11 |     |
| 28                                                                                                                          | SKG25 : Advanced Well Completion, L3 (VILT)              | 3   | VILT     | MS Teams | Coming Soon | 1,870  | 5  | 20 | 5 | Coming Soon | <a href="#">Upon Request (Click to enquire)</a> |     |     |     |     |         |      |     |      |                |        |     |
| 29                                                                                                                          | SKG25 : IWCF Well Control Supervisory, L4 (VILT)         | 4   | VILT     | MS Teams | Coming Soon | 6,940  | 5  | 6  | 5 | Coming Soon | <a href="#">Upon Request (Click to enquire)</a> |     |     |     |     |         |      |     |      |                |        |     |
| 30                                                                                                                          | SKG25 : IWCF Well Pressure Control, L3 & 4 (VILT)        | 3&4 | VILT     | MS Teams | Coming Soon | 6,940  | 5  | 6  | 5 | Coming Soon | <a href="#">Upon Request (Click to enquire)</a> |     |     |     |     |         |      |     |      |                |        |     |

# Net Upgrading (NET UPG)



## NET UPG: Petroleum Industry Programme (PIP)

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br><a href="mailto:yusuf.hussain@petronas.com.my">yusuf.hussain@petronas.com.my</a> |                                                      | Prog. Type | Venue    | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |     |     |     |      |      |      |      |     |     |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------|----------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|
|                                                                                                                                                                   |                                                      |            |          |                    |                 |         |         |                 |                | Jan  | Feb | Mar | Apr | May | June | July | Aug  | Sept | Oct | Nov | Dec |
| 1                                                                                                                                                                 | NET PIP: Introduction to Petroleum Technology (VILT) | VILT       | MS Teams | Coming Soon        | 3,950           | 5       | 15      | 4               | Coming Soon    |      |     |     |     |     |      |      | 8-11 |      |     |     |     |



# NET UPG: Exploration & Production (E&P)

| Programme Leader:<br>Mohamad Muaz Bin Abdul Rasid<br>+609 - 668 6148<br>+6016 – 6569468<br>mohamadmuaz.abdrasi@petronas.com.my |                                                                                          | Level in POSS |    |    | Job Grade |          |          |          |          | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022                            |     |     |     |     |      |       |       |       |      |     |     |  |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------|----|----|-----------|----------|----------|----------|----------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|---------------------------------|-----|-----|-----|-----|------|-------|-------|-------|------|-----|-----|--|
|                                                                                                                                |                                                                                          |               |    |    |           |          |          |          |          |            |                                                               |                    |                 |         |         |                 |                | Jan                             | Feb | Mac | Apr | May | June | July  | Aug   | Sept  | Oct  | Nov | Dec |  |
|                                                                                                                                |                                                                                          | L1            | L2 | L3 | NT1 (10)  | NT2 (11) | NT3 (12) | NT4 (13) | NT5 (14) |            |                                                               |                    |                 |         |         |                 |                |                                 |     |     |     |     |      |       |       |       |      |     |     |  |
| 1                                                                                                                              | NET E&P : Basic Petroleum Prod, Transportation & Processes<br><div>NEW PROGRAMME</div>   | x             |    |    | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Coming Soon        | 3,510           | 6       | 20      | 3               | Coming Soon    |                                 |     |     |     |     |      | 12-14 |       |       |      |     |     |  |
| 2                                                                                                                              | NET E&P : Gaslift Operations and Optimisation<br><div>NEW PROGRAMME</div>                | x             |    |    | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Coming Soon        | 3,510           | 6       | 20      | 3               | Coming Soon    |                                 |     |     |     |     |      | 16-18 |       |       |      |     |     |  |
| 3                                                                                                                              | NET E&P : Gas Compression and Compressor Operation & Control<br><div>NEW PROGRAMME</div> | x             |    |    | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Coming Soon        | 3,510           | 6       | 20      | 3               | Coming Soon    |                                 |     |     |     |     |      |       | 20-22 |       |      |     |     |  |
| 4                                                                                                                              | NET E&P : Water Injection System<br><div>NEW PROGRAMME</div>                             | x             |    |    | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Coming Soon        | 3,510           | 6       | 20      | 3               | Coming Soon    |                                 |     |     |     |     |      |       |       | 11-13 |      |     |     |  |
| 5                                                                                                                              | NET E&P : Wellhead and Production Header System                                          | x             |    |    | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Coming Soon        | 3,510           | 6       | 20      | 3               | Coming Soon    |                                 |     |     |     |     |      |       |       |       | 8-10 |     |     |  |
| 6                                                                                                                              | NET E&P : Petroleum Liquid and Gas Properties<br><div>NEW PROGRAMME</div>                | x             |    |    | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Coming Soon        | 3,510           | 6       | 20      | 3               | Coming Soon    | Upon Request (Click to Enquire) |     |     |     |     |      |       |       |       |      |     |     |  |
| 7                                                                                                                              | NET E&P : Pipe, Valve, Fitting & PNID<br><div>NEW PROGRAMME</div>                        | x             |    |    | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Coming Soon        | 3,510           | 6       | 20      | 3               | Coming Soon    |                                 |     |     |     |     |      |       |       |       |      |     |     |  |
| 8                                                                                                                              | NET E&P : Produced Water Treatment System On The Platform<br><div>NEW PROGRAMME</div>    | x             |    |    | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Coming Soon        | 3,510           | 6       | 20      | 3               | Coming Soon    |                                 |     |     |     |     |      |       |       |       |      |     |     |  |
| 9                                                                                                                              | NET E&P : Gas Dehydration and Regeneration System<br><div>NEW PROGRAMME</div>            | x             |    |    | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Coming Soon        | 3,510           | 6       | 20      | 3               | Coming Soon    |                                 |     |     |     |     |      |       |       |       |      |     |     |  |

# NET UPG: Process & Analytical (P&A) – Process Operations

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br>yusuf.hussain@petronas.com.my |                                                           | Level in<br>POSS |    |    | Job Grade   |             |             |             |             | Prog.<br>Type | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | HRD Corp<br>Claimable | Course<br>Fee<br>(RM) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | MBOT CPD<br>Hours | 2022 |     |     |     |     |          |       |       |       |       |     |       |  |       |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------|----|----|-------------|-------------|-------------|-------------|-------------|---------------|---------------------------------------------------------------------------|-----------------------|-----------------------|------------|------------|--------------------|-------------------|------|-----|-----|-----|-----|----------|-------|-------|-------|-------|-----|-------|--|-------|
|                                                                                                                |                                                           |                  |    |    |             |             |             |             |             |               |                                                                           |                       |                       |            |            |                    |                   | Jan  | Feb | Mac | Apr | May | June     | July  | Aug   | Sept  | Oct   | Nov | Dec   |  |       |
|                                                                                                                |                                                           | L1               | L2 | L3 | NT1<br>(10) | NT2<br>(11) | NT3<br>(12) | NT4<br>(13) | NT5<br>(14) |               |                                                                           |                       |                       |            |            |                    |                   |      |     |     |     |     |          |       |       |       |       |     |       |  |       |
| 1                                                                                                              | NET P&A : Compressor, Fan and Blowers: Operation and Care |                  | x  |    | x           | x           | x           |             |             | F2F (NR)      | KL                                                                        | Coming Soon           | 4,700                 | 6          | 20         | 3                  | Coming Soon       |      |     |     |     |     | 30/5-1/6 |       |       |       | 12-14 |     |       |  |       |
| 2                                                                                                              | NET P&A : Cooling Water                                   |                  | x  |    | x           | x           | x           |             |             | F2F (NR)      | KL                                                                        | Coming Soon           | 4,700                 | 6          | 20         | 3                  | Coming Soon       |      |     |     |     |     |          | 18-20 |       |       |       |     |       |  |       |
| 3                                                                                                              | NET P&A : Filter and Strainer: Operation and Care         |                  | x  |    | x           | x           | x           |             |             | F2F (NR)      | KL                                                                        | Coming Soon           | 3,780                 | 6          | 20         | 2                  | Coming Soon       |      |     |     |     |     |          | 21-22 |       |       |       |     |       |  |       |
| 4                                                                                                              | NET P&A : Furnace                                         |                  | x  |    | x           | x           | x           |             |             | F2F (NR)      | KL                                                                        | Coming Soon           | 3,780                 | 6          | 20         | 2                  | Coming Soon       |      |     |     |     |     |          | 28-29 |       |       |       |     |       |  |       |
| 5                                                                                                              | NET P&A : Gas Turbine: Operation and Care                 |                  | x  |    | x           | x           | x           |             |             | F2F (NR)      | KL                                                                        | Coming Soon           | 4,700                 | 6          | 20         | 3                  | Coming Soon       |      |     |     |     |     |          |       | 4-6   |       |       |     |       |  |       |
| 6                                                                                                              | NET P&A : Piping and Valves                               |                  | x  |    | x           | x           | x           |             |             | F2F (NR)      | KL                                                                        | Coming Soon           | 4,700                 | 6          | 20         | 3                  | Coming Soon       |      |     |     |     |     |          |       |       | 1-3   |       |     |       |  |       |
| 7                                                                                                              | NET P&A : Plant Air Systems                               |                  | x  |    | x           | x           | x           |             |             | F2F (NR)      | KL                                                                        | Coming Soon           | 3,060                 | 6          | 20         | 2                  | Coming Soon       |      |     |     |     |     |          |       |       |       |       |     |       |  | 13-14 |
| 8                                                                                                              | NET P&A : Reactor: Operation and Care                     |                  | x  |    | x           | x           | x           |             |             | F2F (NR)      | KL                                                                        | Coming Soon           | 4,700                 | 6          | 20         | 3                  | Coming Soon       |      |     |     |     |     |          |       | 25-27 |       |       |     |       |  |       |
| 9                                                                                                              | NET P&A : Steam Turbine: Operation and Care               |                  | x  |    | x           | x           | x           |             |             | F2F (NR)      | KL                                                                        | Coming Soon           | 4,700                 | 6          | 20         | 3                  | Coming Soon       |      |     |     |     |     |          |       |       | 22-24 |       |     |       |  |       |
| 10                                                                                                             | NET P&A : Tankage and Storage                             |                  | x  |    | x           | x           | x           |             |             | F2F (NR)      | KL                                                                        | Coming Soon           | 4,700                 | 6          | 20         | 3                  | Coming Soon       |      |     |     |     |     |          |       |       | 1-3   |       |     |       |  |       |
| 11                                                                                                             | NET P&A : Terminal Operation                              |                  | x  |    | x           | x           | x           |             |             | F2F (NR)      | KL                                                                        | Coming Soon           | 3,830                 | 6          | 20         | 2                  | Coming Soon       |      |     |     |     |     |          |       |       |       |       |     | 17-18 |  |       |
| 12                                                                                                             | NET P&A : Utility: Flare, LDS & Fuel Gas System           |                  | x  |    | x           | x           | x           |             |             | F2F (NR)      | KL                                                                        | Coming Soon           | 4,700                 | 6          | 20         | 3                  | Coming Soon       |      |     |     |     |     |          |       |       |       |       |     | 3-5   |  |       |
| 13                                                                                                             | NET P&A: Heat Exchangers: Operation and Care              |                  | x  |    | x           | x           | x           |             |             | F2F (NR)      | KL                                                                        | Coming Soon           | 4,700                 | 6          | 20         | 3                  | Coming Soon       |      |     |     |     |     |          | 13-15 |       |       |       |     |       |  |       |
| 14                                                                                                             | NET P&A: Heat Exchangers: Operation and Care (VILT)       |                  | x  |    | x           | x           | x           |             |             | VILT          | MS Teams                                                                  | Yes                   | 3,240                 | 5          | 20         | 3                  | Coming Soon       |      |     |     |     |     |          | 23-25 |       |       |       |     |       |  |       |

# NET UPG: Process & Analytical (P&A) – Process Operations

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br><a href="mailto:yusuf.hussain@petronas.com.my">yusuf.hussain@petronas.com.my</a> |                                                          | Level in POSS |    |    | Job Grade |          |          |          |          | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |       |     |     |       |      |      |       |      |       |     |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------|----|----|-----------|----------|----------|----------|----------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-------|-----|-----|-------|------|------|-------|------|-------|-----|-----|
|                                                                                                                                                                   |                                                          | L1            | L2 | L3 | NT1 (10)  | NT2 (11) | NT3 (12) | NT4 (13) | NT5 (14) |            |                                                               |                    |                 |         |         |                 |                | Jan  | Feb   | Mar | Apr | May   | June | July | Aug   | Sept | Oct   | Nov | Dec |
| 15                                                                                                                                                                | NET P&A: Pump Operation and Care                         |               | x  |    | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Coming Soon        | 4,700           | 6       | 20      | 3               | Coming Soon    |      |       |     |     | 23-25 |      |      | 15-17 |      |       |     | 5-7 |
| 16                                                                                                                                                                | NET P&A: Pump Operation and Care (VILT)                  |               | x  |    | x         | x        | x        |          |          | VILT       | MS Teams                                                      | Yes                | 3,240           | 5       | 20      | 3               | Coming Soon    |      |       |     |     |       |      | 8-10 |       |      |       |     |     |
| 17                                                                                                                                                                | NET P&A: Water and Waste Water Treatment System          |               | x  |    | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Coming Soon        | 4,700           | 6       | 20      | 3               | Coming Soon    |      |       |     |     | 17-19 |      |      |       |      |       |     |     |
| 18                                                                                                                                                                | NET P&A: Water and Waste Water Treatment System (VILT)   |               | x  |    | x         | x        | x        |          |          | VILT       | MS Teams                                                      | Yes                | 3,240           | 5       | 20      | 3               | Coming Soon    |      | 21-23 |     |     |       |      |      |       |      |       |     |     |
| 19                                                                                                                                                                | NET P&A: Fundamentals Process Control System Engineering |               |    | x  |           |          |          | x        |          | F2F (NR)   | INSTEP*                                                       | Yes                | 6,530           | 8       | 20      | 4               | Coming Soon    |      |       |     |     |       |      |      |       |      | 14-17 |     |     |
| 20                                                                                                                                                                | NET P&A: Separation Process                              |               |    | x  |           |          |          | x        |          | F2F (NR)   | KL                                                            | Coming Soon        | 3,240           | 6       | 20      | 2               | Coming Soon    |      |       |     |     |       | 7-8  |      |       |      |       |     |     |
| 21                                                                                                                                                                | NET P&A: Separation Process (VILT)                       |               |    | x  |           |          |          | x        |          | VILT       | MS Teams                                                      | Yes                | 2,360           | 5       | 20      | 2               | Coming Soon    |      |       |     |     |       |      |      | 5-6   |      |       |     |     |



## NET UPG: Process & Analytical (P&A) – Laboratory

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br>yusuf.hussain@petronas.com.my |                                                                 | Level in POSS |    |    | Job Grade |          |          |          |          | Prog. Type | Venue    | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |     |     |       |       |       |       |       |     |     |     |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------|----|----|-----------|----------|----------|----------|----------|------------|----------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-----|-----|-------|-------|-------|-------|-------|-----|-----|-----|
|                                                                                                                |                                                                 | L1            | L2 | L3 | NT1 (10)  | NT2 (11) | NT3 (12) | NT4 (13) | NT5 (14) |            |          |                    |                 |         |         |                 |                | Jan  | Feb | Mar | Apr | May   | June  | July  | Aug   | Sept  | Oct | Nov | Dec |
| 1                                                                                                              | NET P&A : Fundamental of Analysis and Hydrocarbon Chemistry     |               | x  |    | x         | x        | x        |          |          | F2F (NR)   | KL       | Coming Soon        | 3,780           | 6       | 20      | 2               | Coming Soon    |      |     |     |     |       |       | 4-5   |       |       |     |     |     |
| 2                                                                                                              | NET P&A : Inventory and Record                                  |               | x  |    | x         | x        | x        |          |          | F2F (NR)   | KL       | Coming Soon        | 3,780           | 6       | 20      | 2               | Coming Soon    |      |     |     |     |       |       | 25-26 |       |       |     |     |     |
| 3                                                                                                              | NET P&A: Laboratory Safety                                      |               | x  |    | x         | x        | x        |          |          | F2F (NR)   | KL       | Coming Soon        | 4,700           | 6       | 20      | 3               | Coming Soon    |      |     |     |     | 23-25 |       |       |       |       |     |     |     |
| 4                                                                                                              | NET P&A: Laboratory Safety (VILT)                               |               | x  |    | x         | x        | x        |          |          | VILT       | MS Teams | Coming Soon        | 3,240           | 5       | 20      | 2               | Coming Soon    |      |     | 7-8 |     |       |       |       |       |       |     |     |     |
| 5                                                                                                              | NET P&A : Physical and Biological Techniques                    |               | x  |    | x         | x        | x        |          |          | F2F (NR)   | KL       | Coming Soon        | 4,700           | 6       | 20      | 3               | Coming Soon    |      |     |     |     |       |       | 22-24 |       |       |     |     |     |
| 6                                                                                                              | NET P&A : Reagent Preparation and Standardisation               |               | x  |    | x         | x        | x        |          |          | F2F (NR)   | KL       | Coming Soon        | 3,780           | 6       | 20      | 2               | Coming Soon    |      |     |     |     |       |       |       | 26-27 |       |     |     |     |
| 7                                                                                                              | NET P&A : Sample Management and Field Testing                   |               | x  |    | x         | x        | x        |          |          | F2F (NR)   | KL       | Coming Soon        | 4,700           | 6       | 20      | 3               | Coming Soon    |      |     |     |     |       |       |       |       | 17-19 |     |     |     |
| 8                                                                                                              | NET P&A : Spectroscopy Technique Analysis                       |               | x  |    | x         | x        | x        |          |          | F2F (NR)   | Melaka   | Coming Soon        | 4,700           | 6       | 20      | 3               | Coming Soon    |      |     |     |     |       |       |       |       |       | 7-9 |     |     |
| 9                                                                                                              | NET P&A : Titration and Electrochemistry                        |               | x  |    | x         | x        | x        |          |          | F2F (NR)   | KL       | Coming Soon        | 4,700           | 6       | 20      | 3               | Coming Soon    |      |     |     |     |       |       |       |       |       |     | 5-7 |     |
| 10                                                                                                             | NET P&A : Water & Wastewater Analysis                           |               | x  |    | x         | x        | x        |          |          | F2F (NR)   | INSTEP   | Coming Soon        | 3,740           | 6       | 20      | 3               | Coming Soon    |      |     |     |     |       | 7-9   |       |       |       |     |     |     |
| 11                                                                                                             | NET P&A : Calibration Requirements of Laboratory                |               |    | x  |           |          | x        | x        |          | F2F (NR)   | KL       | Coming Soon        | 4,700           | 6       | 20      | 3               | Coming Soon    |      |     |     |     |       |       | 8-10  |       |       |     |     |     |
| 12                                                                                                             | NET P&A : Maintenance and Troubleshooting of Gas                |               |    | x  |           |          | x        | x        |          | F2F (NR)   | INSTEP   | Coming Soon        | 3,130           | 6       | 20      | 3               | Coming Soon    |      |     |     |     |       |       |       | 12-14 |       |     |     |     |
| 13                                                                                                             | NET P&A: Principles and Calibration of Gas Chromatograph        |               |    | x  |           |          | x        | x        |          | F2F (NR)   | KL       | Coming Soon        | 4,700           | 6       | 20      | 3               | Coming Soon    |      |     |     |     |       | 20-22 |       |       |       |     |     |     |
| 14                                                                                                             | NET P&A: Principles and Calibration of Gas Chromatograph (VILT) |               |    | x  |           |          | x        | x        |          | VILT       | MS Teams | Coming Soon        | 3,240           | 5       | 20      | 3               | Coming Soon    |      |     |     |     |       | 13-15 |       |       |       |     |     |     |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

## NET UPG: Civil

| Programme Leader:<br>M Naim Abu<br>+6013-574 9697<br>mnaim.abu@petronas.com.my |                                                                               | Level in POSS |    |    | Job Grade |          |          |          |          | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |     |     |     |       |       |       |       |     |     |     |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------|----|----|-----------|----------|----------|----------|----------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-----|-----|-----|-------|-------|-------|-------|-----|-----|-----|
|                                                                                |                                                                               | L1            | L2 | L3 | NT1 (10)  | NT2 (11) | NT3 (12) | NT4 (13) | NT5 (14) |            |                                                               |                    |                 |         |         |                 |                | Jan  | Feb | Mar | Apr | May | June  | July  | Aug   | Sept  | Oct | Nov | Dec |
| 1                                                                              | NET CIVIL : HSE, Civil Management & Documentation <small>UPDATED DATE</small> | x             | x  | x  | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Yes                | 3,350           | 5       | 15      | 2               | Coming Soon    |      |     |     |     |     |       |       | 9-10  |       |     |     |     |
| 2                                                                              | NET CIVIL : Painting & Heat Protection Technology                             | x             | x  | x  | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Yes                | 3,350           | 5       | 15      | 2               | Coming Soon    |      |     |     |     |     | 22-23 |       |       |       |     |     |     |
| 3                                                                              | NET CIVIL : Road, Sewerage and General Services Technology                    | x             | x  | x  | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Yes                | 3,700           | 5       | 15      | 3               | Coming Soon    |      |     |     |     |     |       | 26-28 |       |       |     |     |     |
| 4                                                                              | NET CIVIL : Scaffolding Appreciation                                          | x             | x  | x  | x         | x        | x        |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 3,030           | 5       | 15      | 3               | Coming Soon    |      |     |     |     |     |       |       |       | 25-27 |     |     |     |
| 5                                                                              | NET CIVIL : Structural Work and Maintenance Technology                        | x             | x  | x  | x         | x        | x        |          |          | F2F (NR)   | KL                                                            | Yes                | 3,350           | 5       | 15      | 2               | Coming Soon    |      |     |     |     |     |       |       | 21-22 |       |     |     |     |

# NET UPG: Mechanical & Inspection (M&I)

| Programme Leader:<br>M Naim Abu<br>+6013-574 9697<br>mnaim.abu@petronas.com.my |                                                                                                | Level in POSS |     |    | Job Grade |          |          |          |          | Prog. Type       | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |       |     |       |       |       |       |     |       |     |     |     |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------|-----|----|-----------|----------|----------|----------|----------|------------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-------|-----|-------|-------|-------|-------|-----|-------|-----|-----|-----|
|                                                                                |                                                                                                |               |     |    |           |          |          |          |          |                  |                                                               |                    |                 |         |         |                 |                | Jan  | Feb   | Mac | Apr   | May   | June  | July  | Aug | Sept  | Oct | Nov | Dec |
|                                                                                |                                                                                                | L1            | L2  | L3 | NT1 (10)  | NT2 (11) | NT3 (12) | NT4 (13) | NT5 (14) |                  |                                                               |                    |                 |         |         |                 |                |      |       |     |       |       |       |       |     |       |     |     |     |
| 1                                                                              | NET MECH : Advance NDT method: Eddy Current                                                    |               | N/A |    |           |          |          |          | F2F (NR) | Shah Alam        | Yes                                                           | 4,200              | 12              | 20      | 4       | Coming Soon     |                |      |       |     |       | 27-30 |       |       |     |       |     |     |     |
| 2                                                                              | NET MECH : Alignment Principles & Technology                                                   |               |     | x  | x         | x        | x        | x        | F2F (NR) | INSTEP*          | Yes                                                           | 3,030              | 10              | 15      | 3       | Coming Soon     |                |      | 15-17 |     |       |       |       |       |     |       |     |     |     |
| 3                                                                              | NET MECH : Basic Principles of Rotating Equipment                                              |               |     |    |           | x        | x        | x        | F2F (NR) | INSTEP*          | Yes                                                           | 3,030              | 10              | 15      | 3       | Coming Soon     |                |      |       |     | 17-19 |       |       |       |     |       |     |     |     |
| 4                                                                              | NET MECH : Bearing Technology and Maintenance                                                  |               |     |    | x         | x        | x        | x        | F2F (NR) | INSTEP*          | Yes                                                           | 3,030              | 10              | 15      | 3       | Coming Soon     |                |      |       |     |       | 19-21 |       |       |     |       |     |     |     |
| 5                                                                              | NET MECH : BIKE Appreciation Module <div>NEW PROGRAMME</div>                                   |               |     |    |           |          |          |          | F2F (NR) | INSTEP*          | Coming Soon                                                   | 3,390              | 10              | 20      | 3       | Coming Soon     |                |      |       |     |       |       |       |       |     | 28-30 |     |     |     |
| 6                                                                              | NET MECH : Centrifugal Gas Compressor                                                          |               |     |    |           |          |          |          | F2F (NR) | INSTEP*          | Yes                                                           | 3,090              | 10              | 15      | 3       | Coming Soon     |                |      |       |     | 28-30 |       |       |       |     |       |     |     |     |
| 7                                                                              | NET MECH : Condition Monitoring of Rotary Equipment                                            |               |     |    |           | x        | x        | x        | F2F (NR) | INSTEP*          | Yes                                                           | 3,030              | 10              | 15      | 3       | Coming Soon     |                |      |       |     |       |       | 9-11  |       |     |       |     |     |     |
| 8                                                                              | NET MECH : Corrosion Control and Monitoring                                                    |               |     |    |           | x        | x        | x        | F2F (NR) | KL / Kerteh      | Coming Soon                                                   | 3,470              | 12              | 20      | 3       | Coming Soon     |                |      |       |     |       |       |       | 4-6   |     |       |     |     |     |
| 9                                                                              | NET MECH : Destructive Testing <div>UPDATED DATE</div>                                         |               |     |    |           | x        | x        | x        | F2F (NR) | INSTEP*          | Yes                                                           | 2,180              | 10              | 15      | 2       | Coming Soon     |                |      |       |     |       |       | 9-10  |       |     |       |     |     |     |
| 10                                                                             | NET MECH : Diesel engine: Operation & Maintenance                                              |               |     |    |           | x        | x        | x        | F2F (NR) | KL / Kerteh      | Yes                                                           | 3,580              | 15              | 20      | 4       | Coming Soon     |                |      |       |     |       |       | 25-28 |       |     |       |     |     |     |
| 11                                                                             | NET MECH : Equipment Balancing                                                                 |               |     |    |           | x        | x        | x        | F2F (NR) | Kerteh           | Yes                                                           | 3,100              | 12              | 15      | 3       | Coming Soon     |                |      |       |     |       |       |       | 23-25 |     |       |     |     |     |
| 12                                                                             | NET MECH : Gas turbine: Operation and Maintenance                                              |               |     | x  | x         | x        | x        | x        | F2F (NR) | Kuantan / Kerteh | Yes                                                           | 3,820              | 13              | 20      | 4       | Coming Soon     |                |      |       |     |       |       |       | 15-18 |     |       |     |     |     |
| 13                                                                             | NET MECH : Hydraulic Systems: Operation, Troubleshooting & Maintenance                         |               |     |    | x         | x        | x        | x        | F2F (NR) | INSTEP*          | Yes                                                           | 3,030              | 10              | 15      | 3       | Coming Soon     |                |      |       |     | 14-16 |       |       |       |     |       |     |     |     |
| 14                                                                             | NET MECH : Liquid Penetrant Testing (PT)                                                       |               |     |    |           | x        | x        | x        | F2F (NR) | INSTEP*          | Yes                                                           | 3,030              | 10              | 15      | 3       | Coming Soon     |                |      |       |     |       | 26-28 |       |       |     |       |     |     |     |
| 15                                                                             | NET MECH : Lubrication and Filtration                                                          |               |     |    |           | x        | x        | x        | F2F (NR) | Melaka / Kerteh  | Yes                                                           | 3,510              | 15              | 20      | 3       | Coming Soon     |                |      |       |     |       |       |       | 18-20 |     |       |     |     |     |
| 16                                                                             | NET MECH : Magnetic Particle Testing (MT)                                                      |               |     |    |           | x        | x        | x        | F2F (NR) | INSTEP*          | Coming Soon                                                   | 3,030              | 10              | 15      | 3       | Coming Soon     |                |      |       |     |       | 16-18 |       |       |     |       |     |     |     |
| 17                                                                             | NET MECH : Mechanical Seal Maintenance and Troubleshooting                                     |               |     | x  | x         | x        | x        | x        | F2F (NR) | KL / Kerteh      | Yes                                                           | 3,380              | 15              | 20      | 3       | Coming Soon     |                |      |       |     |       |       |       |       |     |       |     |     |     |
| 18                                                                             | NET MECH : Non-Destructive Testing                                                             |               |     |    |           | x        | x        | x        | F2F (NR) | INSTEP*          | Yes                                                           | 2,680              | 10              | 15      | 4       | Coming Soon     |                |      |       |     |       |       | 8-11  |       |     |       |     |     |     |
| 19                                                                             | NET MECH : Painting and Coating Inspection <div>UPDATED DATE</div>                             |               |     |    |           |          |          | x        | F2F (NR) | INSTEP*          | Yes                                                           | 2,180              | 10              | 15      | 2       | Coming Soon     |                |      |       |     |       |       |       | 27-28 |     |       |     |     |     |
| 20                                                                             | NET MECH : Pneumatic Systems: Operation, Troubleshooting & Maintenance <div>UPDATED DATE</div> |               |     |    |           | x        | x        | x        | x        | F2F (NR)         | INSTEP*                                                       | Yes                | 3,030           | 10      | 15      | 3               | Coming Soon    |      |       |     |       |       | 26-28 |       |     |       |     |     |     |
| 21                                                                             | NET MECH : Positive Displacement Pump                                                          |               |     | x  | x         | x        | x        | x        | F2F (NR) | INSTEP*          | Yes                                                           | 2,180              | 10              | 15      | 2       | Coming Soon     |                |      |       |     |       | 13-14 |       |       |     |       |     |     |     |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes



# NET UPG: Mechanical & Inspection (M&I)

| Programme Leader:<br>M Naim Abu<br>+6013-574 9697<br>mnaim.abu@petronas.com.my |                                                                          | Level in<br>POSS |    |    | Job Grade   |             |             |             |             | Prog.<br>Type | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | HRD Corp<br>Claimable | Course<br>Fee (RM) | Min<br>Pax | Max<br>Pax  | Duration<br>(Days) | MBOT CPD<br>Hours | 2022  |       |     |       |       |              |       |     |      |     |     |     |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------|----|----|-------------|-------------|-------------|-------------|-------------|---------------|---------------------------------------------------------------------------|-----------------------|--------------------|------------|-------------|--------------------|-------------------|-------|-------|-----|-------|-------|--------------|-------|-----|------|-----|-----|-----|
|                                                                                |                                                                          |                  |    |    |             |             |             |             |             |               |                                                                           |                       |                    |            |             |                    |                   | Jan   | Feb   | Mac | Apr   | May   | June         | July  | Aug | Sept | Oct | Nov | Dec |
|                                                                                |                                                                          | L1               | L2 | L3 | NT1<br>(10) | NT2<br>(11) | NT3<br>(12) | NT4<br>(13) | NT5<br>(14) |               |                                                                           |                       |                    |            |             |                    |                   |       |       |     |       |       |              |       |     |      |     |     |     |
| 22                                                                             | NET MECH : Precision Measurement Tools and Bench Fittings                | N/A              |    | x  | x           | x           | x           | F2F (NR)    | INSTEP*     | Yes           | 2,900                                                                     | 10                    | 15                 | 4          | Coming Soon |                    |                   |       |       |     |       |       | 22-25        |       |     |      |     |     |     |
| 23                                                                             | NET MECH : Precision Practical Alignment <div>UPDATED DATE</div>         |                  | x  | x  | x           | x           | x           | F2F (NR)    | INSTEP*     | Coming Soon   | 3,030                                                                     | 10                    | 15                 | 3          | Coming Soon |                    |                   |       |       |     |       | 16-18 |              |       |     |      |     |     |     |
| 24                                                                             | NET MECH : Pressure Relieving Devices                                    |                  |    |    | x           | x           | x           | F2F (NR)    | INSTEP*     | Yes           | 2,180                                                                     | 10                    | 15                 | 2          | Coming Soon |                    |                   |       |       |     |       | 18-19 |              |       |     |      |     |     |     |
| 25                                                                             | NET MECH : Professional Drone Operator <div>NEW PROGRAMME</div>          |                  |    |    |             |             |             | F2F (NR)    | INSTEP      | Yes           | 6,110                                                                     | 6                     | 12                 | 3          | Coming Soon |                    |                   |       |       |     | 14-16 | 26-28 | 2-4<br>16-18 |       |     |      |     |     |     |
| 26                                                                             | NET MECH : Pump Troubleshooting                                          |                  |    |    | x           | x           | x           | F2F (NR)    | INSTEP*     | Yes           | 2,180                                                                     | 10                    | 15                 | 2          | Coming Soon |                    |                   |       |       |     |       |       |              | 25-26 |     |      |     |     |     |
| 27                                                                             | NET MECH : Quality Control                                               |                  |    |    | x           | x           | x           | F2F (NR)    | KL          | Yes           | 3,470                                                                     | 15                    | 20                 | 3          | Coming Soon |                    |                   |       |       |     |       |       |              | 25-27 |     |      |     |     |     |
| 28                                                                             | NET MECH : Quality Control of Rotating Equipment <div>UPDATED DATE</div> |                  |    |    | x           | x           | x           | F2F (NR)    | INSTEP*     | Yes           | 2,200                                                                     | 10                    | 15                 | 3          | Coming Soon |                    |                   |       |       |     | 18-20 |       |              |       |     |      |     |     |     |
| 29                                                                             | NET MECH : Reciprocating Compressor                                      |                  | x  | x  | x           | x           | x           | F2F (NR)    | INSTEP*     | Yes           | 3,030                                                                     | 10                    | 15                 | 3          | Coming Soon |                    |                   | 8-10  |       |     |       |       |              |       |     |      |     |     |     |
| 30                                                                             | NET MECH : Single Stage Centrifugal Pump                                 |                  |    | x  | x           | x           | x           | F2F (NR)    | INSTEP*     | Yes           | 3,030                                                                     | 10                    | 15                 | 3          | Coming Soon |                    |                   |       |       |     |       |       |              | 17-19 |     |      |     |     |     |
| 31                                                                             | NET MECH : Single Stage Steam Turbine                                    |                  |    | x  | x           | x           | x           | F2F (NR)    | INSTEP*     | Yes           | 3,030                                                                     | 10                    | 15                 | 3          | Coming Soon |                    |                   |       | 24-26 |     |       |       |              |       |     |      |     |     |     |
| 32                                                                             | NET MECH : Tank Maintenance and Repair                                   |                  | x  | x  | x           | x           | x           | F2F (NR)    | INSTEP*     | Coming Soon   | 3,340                                                                     | 10                    | 15                 | 4          | Coming Soon |                    |                   |       |       |     |       |       |              | 3-6   |     |      |     |     |     |
| 33                                                                             | NET MECH : Troubleshooting Technique of Rotating Equipment               |                  | x  | x  | x           | x           | x           | F2F (NR)    | KL / Kerteh | Yes           | 3,770                                                                     | 12                    | 15                 | 3          | Coming Soon |                    |                   |       |       | 7-9 |       |       |              |       |     |      |     |     |     |
| 34                                                                             | NET MECH : Ultrasonic Testing (UT)                                       |                  |    |    | x           | x           | x           | F2F (NR)    | INSTEP*     | Yes           | 3,030                                                                     | 10                    | 15                 | 3          | Coming Soon |                    |                   |       |       |     | 21-23 |       |              |       |     |      |     |     |     |
| 35                                                                             | NET MECH : Unfired Pressure Vessel Inspection                            |                  |    |    | x           | x           |             | F2F (NR)    | INSTEP*     | Yes           | 2,960                                                                     | 10                    | 15                 | 3          | Coming Soon |                    |                   |       |       |     |       |       | 12-14        |       |     |      |     |     |     |
| 36                                                                             | NET MECH : Valves and Safety Valves Maintenance & Repair                 |                  |    |    | x           | x           | x           | F2F (NR)    | INSTEP*     | Yes           | 3,030                                                                     | 10                    | 15                 | 3          | Coming Soon |                    |                   |       |       |     |       |       | 26-28        |       |     |      |     |     |     |
| 37                                                                             | NET MECH : Vibration Survey and Analysis                                 |                  |    |    | x           | x           | x           | F2F (NR)    | Kerteh      | Yes           | 3,100                                                                     | 12                    | 15                 | 3          | Coming Soon |                    |                   |       |       |     |       |       |              |       | 1-3 |      |     |     |     |
| 38                                                                             | NET MECH : Welding Inspection                                            |                  |    |    | x           | x           |             | F2F (NR)    | INSTEP*     | Yes           | 2,130                                                                     | 10                    | 15                 | 3          | Coming Soon |                    |                   | 29-31 |       |     |       |       |              |       |     |      |     |     |     |
| 39                                                                             | NET MECH : Welding Technology                                            |                  | x  | x  | x           |             |             | F2F (NR)    | INSTEP*     | Yes           | 2,610                                                                     | 10                    | 15                 | 4          | Coming Soon |                    |                   |       |       |     |       |       |              | 17-20 |     |      |     |     |     |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

# NET UPG: Electrical

| Programme Leader:<br>Muhammad Badiuzzaman Bin Rusli<br>+609-6686 295<br>+019-3417 612<br>mbadiuzzaman.rusli@petronas.com.my |                                                                                                | Level in<br>POSS |    |    | Job Grade   |             |             |             |             | Prog.<br>Type | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | HRD Corp<br>Claimable | Course<br>Fee (RM) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | MBOT CPD<br>Hours | 2022                                            |       |         |      |         |        |      |         |         |     |              |     |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------|----|----|-------------|-------------|-------------|-------------|-------------|---------------|---------------------------------------------------------------------------|-----------------------|--------------------|------------|------------|--------------------|-------------------|-------------------------------------------------|-------|---------|------|---------|--------|------|---------|---------|-----|--------------|-----|
|                                                                                                                             |                                                                                                |                  |    |    |             |             |             |             |             |               |                                                                           |                       |                    |            |            |                    |                   | Jan                                             | Feb   | Mac     | Apr  | May     | June   | July | Aug     | Sept    | Oct | Nov          | Dec |
|                                                                                                                             |                                                                                                | L1               | L2 | L3 | NT1<br>(10) | NT2<br>(11) | NT3<br>(12) | NT4<br>(13) | NT5<br>(14) |               |                                                                           |                       |                    |            |            |                    |                   |                                                 |       |         |      |         |        |      |         |         |     |              |     |
| 1                                                                                                                           | NET ELEC : Heating, Ventilation & Air Conditioning System (VILT)                               | x                | x  |    | x           | x           | x           |             |             | VILT          | MS Teams                                                                  | Yes                   | 2,790              | 5          | 10         | 3                  | Coming Soon       |                                                 |       |         |      |         | 14 -16 |      |         |         |     |              |     |
| 2                                                                                                                           | NET ELEC : Heating, Ventilation & Air Conditioning System <div>UPDATED DATE</div>              | x                | x  |    | x           | x           | x           |             |             | F2F (NR)      | INSTEP                                                                    | Yes                   | 3,370              | 8          | 10         | 4                  | Coming Soon       |                                                 |       |         |      |         |        |      |         | 17 - 20 |     |              |     |
| 3                                                                                                                           | NET ELEC : Maintenance and Troubleshooting of Low Voltage Motor (VILT)                         | x                | x  |    | x           | x           | x           |             |             | VILT          | MS Teams                                                                  | Yes                   | 2,480              | 5          | 10         | 2                  | Coming Soon       |                                                 |       | 9 - 10  |      |         |        |      |         |         |     |              |     |
| 4                                                                                                                           | NET ELEC : Portable Electrical Equipment and Temporary Installation (VILT)                     | x                | x  |    | x           | x           | x           |             |             | VILT          | MS Teams                                                                  | Yes                   | 2,480              | 5          | 10         | 2                  | Coming Soon       |                                                 | 23-24 |         | 11-2 |         |        |      |         |         |     |              |     |
| 5                                                                                                                           | NET ELEC : Operation and Maintenance of Low Voltage Switchboard (VILT)                         | x                | x  | x  | x           | x           | x           | x           |             | VILT          | MS Teams                                                                  | Yes                   | 2,480              | 5          | 10         | 2                  | Coming Soon       |                                                 |       |         |      | 30 - 31 |        |      |         |         |     |              |     |
| 6                                                                                                                           | NET ELEC : Pre- Commissioning and Commissioning of Electrical Equipment (VILT)                 | x                | x  | x  |             | x           | x           | x           | x           | VILT          | MS Teams                                                                  | Yes                   | 2,480              | 5          | 10         | 3                  | Coming Soon       |                                                 |       | 16 - 18 |      |         |        |      |         |         |     |              |     |
| 7                                                                                                                           | NET ELEC : Motor Control System                                                                | x                | x  | x  | x           | x           | x           | x           |             | F2F (NR)      | INSTEP*                                                                   | Yes                   | 3,620              | 5          | 10         | 4                  | Coming Soon       |                                                 |       |         |      |         |        |      |         | 21 - 24 |     |              |     |
| 8                                                                                                                           | NET ELEC : High Voltage Switching and Generator Synchronizing Practice <div>UPDATED DATE</div> | x                | x  | x  | x           | x           | x           | x           |             | F2F (NR)      | INSTEP*                                                                   | Yes                   | 6,910              | 5          | 10         | 5                  | Coming Soon       |                                                 |       |         |      |         | 12-16  |      |         |         |     | 27/11 – 1/12 |     |
| 9                                                                                                                           | NET ELEC : Low Voltage Switching and Generator Synchronizing Practice <div>UPDATED DATE</div>  | x                | x  | x  | x           | x           | x           | x           |             | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 5,280              | 5          | 10         | 5                  | Coming Soon       |                                                 |       |         |      |         |        |      |         | 17 - 21 |     |              |     |
| 10                                                                                                                          | NET ELEC : Technical Trade Specialist (TTS) Preparatory                                        | x                | x  | x  |             |             |             |             | x           | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 3,620              | 5          | 10         |                    | Coming Soon       | <a href="#">Upon Request (Click to Enquire)</a> |       |         |      |         |        |      |         |         |     |              |     |
| 11                                                                                                                          | NET ELEC : Technical Trade Specialist (TTS) Assessment                                         | x                | x  | x  |             |             |             |             | x           | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 3,620              | 5          | 10         |                    | Coming Soon       |                                                 |       |         |      |         |        |      |         |         |     |              |     |
| 12                                                                                                                          | NET ELEC : Condition-Based Monitoring of High Voltage Switchgears and Transformers             |                  | x  | x  |             |             | x           | x           | x           | F2F (NR)      | INSTEP*                                                                   | Yes                   | 3,620              | 5          | 10         | 4                  | Coming Soon       |                                                 |       |         |      |         |        |      |         |         |     | 5 - 8        |     |
| 13                                                                                                                          | NET ELEC : Electrical Protection System (VILT)                                                 |                  | x  | x  |             | x           | x           | x           |             | VILT          | MS Teams                                                                  | Yes                   | 2,480              | 5          | 10         | 2                  | Coming Soon       |                                                 |       | 30 - 31 |      |         |        |      |         |         |     |              |     |
| 14                                                                                                                          | NET ELEC : Earthing, Lightning & Cathodic Protection System (VILT)                             |                  | x  | x  |             |             | x           | x           | x           | VILT          | MS Teams                                                                  | Yes                   | 2,790              | 5          | 10         | 3                  | Coming Soon       |                                                 |       |         |      |         |        |      | 5 - 7   |         |     |              |     |
| 15                                                                                                                          | NET ELEC : Earthing, Lightning & Cathodic Protection System <div>UPDATED DATE</div>            |                  | x  | x  |             |             | x           | x           | x           | F2F (NR)      | INSTEP                                                                    | Yes                   | 3,050              | 5          | 10         | 3                  | Coming Soon       |                                                 |       |         |      |         |        |      |         |         |     | 13 - 15      |     |
| 16                                                                                                                          | NET ELEC : Fire Alarm, Public Address & General Alarm System (VILT)                            |                  | x  | x  |             |             | x           | x           | x           | VILT          | MS Teams                                                                  | Yes                   | 2,790              | 5          | 10         | 3                  | Coming Soon       |                                                 |       |         |      |         |        |      | 22 - 24 |         |     |              |     |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

# NET UPG: Electrical

| Programme Leader:<br>Muhammad Badiuzzaman Bin Rusli<br>+609-6686 295<br>+019-3417 612<br>mbadiuzzaman.rusli@petronas.com.my |                                                                                              | Level in<br>POSS |    |    | Job Grade   |             |             |             |             | Prog.<br>Type | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | HRD Corp<br>Claimable | Course<br>Fee (RM) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | MBOT CPD<br>Hours | 2022 |       |     |     |     |       |         |         |         |      |     |     |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------|----|----|-------------|-------------|-------------|-------------|-------------|---------------|---------------------------------------------------------------------------|-----------------------|--------------------|------------|------------|--------------------|-------------------|------|-------|-----|-----|-----|-------|---------|---------|---------|------|-----|-----|
|                                                                                                                             |                                                                                              |                  |    |    |             |             |             |             |             |               |                                                                           |                       |                    |            |            |                    |                   | Jan  | Feb   | Mac | Apr | May | June  | July    | Aug     | Sept    | Oct  | Nov | Dec |
|                                                                                                                             |                                                                                              | L1               | L2 | L3 | NT1<br>(10) | NT2<br>(11) | NT3<br>(12) | NT4<br>(13) | NT5<br>(14) |               |                                                                           |                       |                    |            |            |                    |                   |      |       |     |     |     |       |         |         |         |      |     |     |
| 17                                                                                                                          | NET ELEC : Generator Operation and Control System (VILT)                                     |                  | x  | x  |             |             | x           | x           | x           | VILT          | MS Teams                                                                  | Yes                   | 2,480              | 5          | 10         | 2                  | Coming Soon       |      |       |     |     |     | 7 - 9 |         |         | 21 - 22 |      |     |     |
| 18                                                                                                                          | NET ELEC : Generator Operation and Control System<br><div>UPDATED DATE</div>                 |                  | x  | x  |             |             | x           | x           | x           | F2F (NR)      | INSTEP                                                                    | Yes                   | 3,050              | 5          | 10         | 3                  | Coming Soon       |      |       |     |     |     |       |         | 21 - 22 |         |      |     |     |
| 19                                                                                                                          | NET ELEC : High Voltage System Switching                                                     |                  | x  | x  |             |             | x           | x           | x           | F2F (NR)      | INSTEP*                                                                   | Yes                   | 3,220              | 5          | 10         | 3                  | Coming Soon       |      |       |     |     |     |       |         |         | 1 - 3   |      |     |     |
| 20                                                                                                                          | NET ELEC : Motor Operated Valve (MOV)                                                        |                  | x  | x  |             | x           | x           | x           | x           | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 2,310              | 5          | 10         | 2                  | Coming Soon       |      |       |     |     |     |       |         |         | 15 - 16 |      |     |     |
| 21                                                                                                                          | NET ELEC : Maintenance and Troubleshooting of AC & DC UPS System (VILT)                      |                  | x  | x  |             |             | x           | x           | x           | VILT          | MS Teams                                                                  | Yes                   | 2,480              | 5          | 10         | 3                  | Coming Soon       |      |       |     |     |     |       | 2 - 4   |         |         |      |     |     |
| 22                                                                                                                          | NET ELEC : Maintenance and Troubleshooting of AC & DC UPS System<br><div>UPDATED DATE</div>  |                  | x  | x  |             |             | x           | x           | x           | F2F (NR)      | INSTEP                                                                    | Yes                   | 3,050              | 5          | 10         | 3                  | Coming Soon       |      |       |     |     |     |       | 4 - 6   |         |         |      |     |     |
| 23                                                                                                                          | NET ELEC : Operation and Maintenance of High Voltage Motor (VILT)                            |                  | x  | x  |             |             | x           | x           | x           | VILT          | MS Teams                                                                  | Yes                   | 2,380              | 5          | 10         | 3                  | Coming Soon       |      |       |     |     |     |       |         |         | 4 - 6   |      |     |     |
| 24                                                                                                                          | NET ELEC : Operation and Maintenance of High Voltage Motor<br><div>UPDATED DATE</div>        |                  | x  | x  |             |             | x           | x           | x           | F2F (NR)      | INSTEP                                                                    | Yes                   | 3,050              | 8          | 10         | 3                  | Coming Soon       |      |       |     |     |     |       | 28 - 30 |         |         |      |     |     |
| 25                                                                                                                          | NET ELEC : Operation and Maintenance of Solar Energy (VILT)                                  |                  | x  | x  |             |             | x           | x           | x           | VILT          | MS Teams                                                                  | Coming Soon           | 2,480              | 5          | 10         | 3                  | Coming Soon       |      |       |     |     |     |       | 21 - 23 |         | 27 - 29 |      |     |     |
| 26                                                                                                                          | NET ELEC : Operation and Maintenance of Solar Energy<br><div>UPDATED DATE</div>              |                  | x  | x  |             |             | x           | x           | x           | F2F (NR)      | INSTEP                                                                    | Yes                   | 3,080              | 8          | 10         | 3                  | Coming Soon       |      |       |     |     |     |       |         |         | 11-13   |      |     |     |
| 27                                                                                                                          | NET ELEC : Power Management Practice (VILT)                                                  |                  | x  | x  |             | x           | x           | x           | x           | VILT          | MS Teams                                                                  | Yes                   | 2,480              | 5          | 10         | 2                  | Coming Soon       |      |       |     |     |     |       | 13 - 14 |         |         |      |     |     |
| 28                                                                                                                          | NET ELEC : Power Electronics (VILT)                                                          |                  |    | x  | x           | x           | x           | x           | x           | VILT          | MS Teams                                                                  | Yes                   | 2,480              | 5          | 10         | 3                  | Coming Soon       |      |       |     |     |     |       | 26 - 28 |         |         |      |     |     |
| 29                                                                                                                          | NET ELEC : Power Electronics<br><div>UPDATED DATE</div>                                      |                  |    | x  | x           | x           | x           | x           | x           | F2F (NR)      | INSTEP                                                                    | Yes                   | 3,050              | 5          | 10         | 3                  | Coming Soon       |      |       |     |     |     |       |         |         |         | 8-10 |     |     |
| 30                                                                                                                          | NET ELEC : Soft Starter & Variable Speed Drive System ( VSDS )                               |                  |    | x  |             |             | x           | x           | x           | F2F (NR)      | INSTEP*                                                                   | Yes                   | 3,220              | 5          | 10         | 3                  | Coming Soon       |      |       |     |     |     |       |         |         | 25 - 27 |      |     |     |
| 31                                                                                                                          | NET ELEC : Selection, Installation and Inspection of Ex Equipment ( VILT)                    |                  |    |    |             | x           | x           | x           |             | VILT          | MS Teams                                                                  | Yes                   | 2,480              | 5          | 10         | 2                  | Coming Soon       |      | 16-17 |     |     |     |       | 29-30   |         |         |      |     |     |
| 32                                                                                                                          | NET ELEC : Selection, Installation and Inspection of Ex Equipment<br><div>UPDATED DATE</div> |                  |    |    |             | x           | x           | x           |             | F2F (NR)      | INSTEP                                                                    | Yes                   | 3,370              | 5          | 10         | 4                  | Coming Soon       |      |       |     |     |     |       |         |         | 12-15   |      |     |     |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes



## NET UPG: Instrumentation

| Programme Leader:<br>M Nazmi Mizan<br>+609-6686 322<br>+017-9096 972<br>mnazmi.mizan@petronas.com |                                                                            | Level in POSS |    |    | Job Grade |          |          |          |          | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |       |     |     |      |       |       |      |       |     |     |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|----|----|-----------|----------|----------|----------|----------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-------|-----|-----|------|-------|-------|------|-------|-----|-----|
|                                                                                                   |                                                                            | L1            | L2 | L3 | NT1 (10)  | NT2 (11) | NT3 (12) | NT4 (13) | NT5 (14) |            |                                                               |                    |                 |         |         |                 |                | Jan  | Feb | Mac   | Apr | May | June | July  | Aug   | Sept | Oct   | Nov | Dec |
| 1                                                                                                 | NET INST : Control Valve I L1 (VILT)                                       | x             |    |    | x         |          |          |          |          | VILT       | MS Teams                                                      | Yes                | 1,750           | 5       | 15      | 2               | Coming Soon    |      |     |       |     |     |      | 13-14 |       |      |       |     |     |
| 2                                                                                                 | NET INST : Control Valve I L1 (Practical Session)**                        | x             |    |    | x         |          |          |          |          | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 2,040           | 5       | 15      | 2               | Coming Soon    |      |     |       |     |     |      |       | 1-2   |      |       |     |     |
| 3                                                                                                 | NET INST : Instrumented Safeguarding System I L1 (VILT)                    | x             |    |    | x         |          |          |          |          | VILT       | MS Teams                                                      | Yes                | 1,750           | 5       | 15      | 2               | Coming Soon    |      |     | 21-22 |     |     |      |       |       |      |       |     |     |
| 4                                                                                                 | NET INST : Instrumented Safeguarding System I L1 (Practical Session)**     | x             |    |    | x         |          |          |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 2,040           | 5       | 15      | 2               | Coming Soon    |      |     |       |     |     |      |       | 5-6   |      |       |     |     |
| 5                                                                                                 | NET INST : Process Control Theory and Application L1 (VILT)                | x             |    |    | x         |          |          |          |          | VILT       | MS Teams                                                      | Yes                | 1,750           | 5       | 15      | 2               | Coming Soon    |      |     |       |     |     |      | 13-14 |       |      |       |     |     |
| 6                                                                                                 | NET INST : Process Control Theory and Application L1 (Practical Session)** | x             |    |    | x         |          |          |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 2,040           | 5       | 15      | 2               | Coming Soon    |      |     |       |     |     |      |       | 19-20 |      |       |     |     |
| 7                                                                                                 | NET INST : Process Measurement I L1 (VILT)                                 | x             |    |    | x         |          |          |          |          | VILT       | MS Teams                                                      | Yes                | 1,750           | 5       | 15      | 2               | Coming Soon    |      |     |       |     |     |      | 4-5   |       |      |       |     |     |
| 8                                                                                                 | NET INST : Process Measurement I L1 (Practical Session)**                  | x             |    |    | x         |          |          |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 2,040           | 5       | 15      | 2               | Coming Soon    |      |     |       |     |     |      |       | 14-15 |      |       |     |     |
| 9                                                                                                 | NET INST : Liquid and Gas Metering L2 (VILT)                               |               | x  |    |           | x        |          |          |          | VILT       | MS Teams                                                      | Yes                | 1,750           | 5       | 15      | 2               | Coming Soon    |      |     | 28-29 |     |     |      |       |       |      |       |     |     |
| 10                                                                                                | NET INST : Liquid and Gas Metering L2 (Practical Session)**                |               | x  |    |           | x        |          |          |          | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 2,040           | 5       | 15      | 2               | Coming Soon    |      |     |       |     |     |      |       |       |      | 14-15 |     |     |

### Note:

- Only selected\*\* Instrumentation trainings from the list above will be delivered in mixed mode of Virtual Instructor-Led Training (VILT) and Face-to-Face (F2F) Experiential Learning.
- Please note that it is *compulsory* to attend VILT session prior to F2F Experiential Learning.
- For F2F Experiential Learning, please refer to the next page.

# NET UPG: Instrumentation

| Programme Leader:<br>M Nazmi Mizan<br>+609-6686 322<br>+017-9096 972<br><a href="mailto:mnazmi.mizan@petronas.com">mnazmi.mizan@petronas.com</a> |                                                                                                                       | Level in POSS |    |    | Job Grade |          |          |          |          | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |     |     |     |      |       |       |       |       |       |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------|----|----|-----------|----------|----------|----------|----------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-----|
|                                                                                                                                                  |                                                                                                                       | L1            | L2 | L3 | NT1 (10)  | NT2 (11) | NT3 (12) | NT4 (13) | NT5 (14) |            |                                                               |                    |                 |         |         |                 |                | Jan  | Feb | Mar | Apr | May | June | July  | Aug   | Sept  | Oct   | Nov   | Dec |
| 11                                                                                                                                               | NET INST : Control Valve II, L2                                                                                       |               | x  |    |           | x        |          |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 3,570           | 8       | 15      | 3               | 18             |      |     |     |     |     |      |       |       |       | 11-13 |       |     |
| 12                                                                                                                                               | NET INST : Process Measurement II, L2                                                                                 |               | x  |    |           | x        |          |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 3,570           | 8       | 15      | 3               | 18             |      |     |     |     |     |      |       |       |       | 17-19 |       |     |
| 13                                                                                                                                               | NET INST : Instrumented Safeguarding System II L2                                                                     |               | x  |    |           | x        |          |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 3,570           | 8       | 15      | 3               | 18             |      |     |     |     |     |      |       |       |       | 17-19 |       |     |
| 14                                                                                                                                               | NET INST : Vibration Monitoring System, L2                                                                            |               | x  |    |           | x        |          |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 3,570           | 8       | 15      | 3               | 18             |      |     |     |     |     |      |       |       |       |       | 8-10  |     |
| 15                                                                                                                                               | NET INST : Gas Chromatograph, L2                                                                                      |               | x  |    |           | x        |          |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 3,570           | 8       | 15      | 3               | 18             |      |     |     |     |     |      |       | 8-10  |       |       |       |     |
| 16                                                                                                                                               | NET INST : PID Tuning, L2                                                                                             |               | x  |    |           | x        |          |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 3,570           | 8       | 15      | 3               | 18             |      |     |     |     |     |      |       |       |       |       |       | 6-8 |
| 17                                                                                                                                               | NET INST : Quality Measuring Instrument, L2                                                                           |               | x  |    |           | x        |          |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 3,570           | 8       | 15      | 3               | 18             |      |     |     |     |     |      | 18-20 |       |       |       |       |     |
| 18                                                                                                                                               | NET INST : Gas Turbine and Control System - Solar-Turbotronic I, L2                                                   |               | x  |    |           | x        |          |          |          | F2F (NR)   | Kuantan                                                       | Yes                | 4,390           | 10      | 15      | 4               | 24             |      |     |     |     |     |      |       |       |       | 21-24 |       |     |
| 19                                                                                                                                               | NET INST : GE Heavy Duty Gas Turbine, L2                                                                              |               | x  |    |           | x        |          |          |          | F2F (NR)   | Kuantan                                                       | Yes                | 4,390           | 10      | 15      | 4               | 24             |      |     |     |     |     |      |       |       |       |       | 19-22 |     |
| 20                                                                                                                                               | NET INST : Gas Detection System, L3                                                                                   |               |    | x  |           |          | x        |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 3,570           | 8       | 15      | 3               | 18             |      |     |     |     |     |      |       |       |       |       | 20-22 |     |
| 21                                                                                                                                               | NET INST : Programmable Logic Controller - Allen Bradley CLX5000, L3                                                  |               |    | x  |           |          | x        |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 3,570           | 8       | 15      | 3               | 18             |      |     |     |     |     |      |       | 15-17 |       |       |       |     |
| 22                                                                                                                                               | NET INST : Introduction to the Distributed Control System (DCS) Operation - Experion PKS for Process Operator, L3     |               |    | x  |           |          | x        |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 3,570           | 8       | 15      | 3               | 18             |      |     |     |     |     |      | 25-27 |       |       |       |       |     |
| 23                                                                                                                                               | NET INST : Introduction to the Distributed Control System (DCS) Operation - Yokogawa CS 3000 for Process Operator, L3 |               |    | x  |           |          | x        |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 3,570           | 8       | 15      | 3               | 18             |      |     |     |     |     |      |       |       | 13-15 |       |       |     |
| 24                                                                                                                                               | NET INST : Honeywell EPKS Engineering & Maintenance, L3                                                               |               |    | x  |           |          | x        |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 4,630           | 8       | 15      | 4               | 24             |      |     |     |     |     |      |       |       |       | 10-13 |       |     |
| 25                                                                                                                                               | NET INST : Safety PLC- Tricon TMR, L3                                                                                 |               |    | x  |           |          | x        |          |          | F2F (NR)   | INSTEP*                                                       | Yes                | 3,570           | 8       | 15      | 3               | 18             |      |     |     |     |     |      |       |       |       |       | 6-8   |     |
| 26                                                                                                                                               | NET INST : Instrument Installation and Maintenance, L3                                                                |               |    | x  |           |          | x        |          |          | F2F (NR)   | KL                                                            | Yes                | 4,400           | 8       | 15      | 3               | 18             |      |     |     |     |     |      |       | 23-25 |       |       |       |     |
| 27                                                                                                                                               | NET INST : Solar Turbine & Control System II, L3                                                                      |               |    | x  |           |          | x        |          |          | F2F (NR)   | Kuantan                                                       | Yes                | 4,390           | 10      | 15      | 4               | 24             |      |     |     |     |     |      |       |       |       | 14-17 |       |     |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

# NET UPG: Health, Safety & Environment (HSE) – HSE Training Matrix Programme

| Programme Leader:<br>Raja Surida Binti Saiful Bahri<br>+609-668 6346<br>+016-333 4094<br><a href="mailto:rajasurida.sb@petronas.com.my">rajasurida.sb@petronas.com.my</a> |                                                                                     |            |                                                               |                    |                 |         |         |                 |                | 2022                                            |     |     |     |     |      |      |     |      |     |     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|-------------------------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
|                                                                                                                                                                           |                                                                                     | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTF) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | Jan                                             | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 1                                                                                                                                                                         | HSE TMP : Basic Fire Fighting (VILT)                                                | VILT       | MS Teams                                                      | Coming Soon        | 730             | 10      | 15      | 1               | Coming Soon    | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |      |      |     |      |     |     |     |
| 2                                                                                                                                                                         | HSE TMP : Basic First Aid (VILT)                                                    | VILT       | MS Teams                                                      | Coming Soon        | 730             | 10      | 15      | 1               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 3                                                                                                                                                                         | HSE TMP : Behavioral Safety (VILT)                                                  | VILT       | MS Teams                                                      | Coming Soon        | 1,170           | 10      | 15      | 2               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 4                                                                                                                                                                         | HSE TMP : CePSWaM Field Training Report Preparation Workshop (FTR) (VILT)           | VILT       | MS Teams                                                      | Yes                | 1,170           | 10      | 15      | 2               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 5                                                                                                                                                                         | HSE TMP : Chemical Spill Response and Clean-up (VILT)                               | VILT       | MS Teams                                                      | Coming Soon        | 730             | 10      | 15      | 1               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 6                                                                                                                                                                         | HSE TMP : Company Competent Gas Tester (CCGT) (VILT)                                | VILT       | MS Teams                                                      | Yes                | 730             | 10      | 15      | 1               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 7                                                                                                                                                                         | HSE TMP : Emergency Management Program (EMP) (VILT)                                 | VILT       | MS Teams                                                      | Coming Soon        | 1,170           | 10      | 15      | 2               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 8                                                                                                                                                                         | HSE TMP : Emergency Response Team (ERT) (VILT)                                      | VILT       | MS Teams                                                      | Coming Soon        | 1,170           | 10      | 15      | 2               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 9                                                                                                                                                                         | HSE TMP : Energy Isolation(VILT)                                                    | VILT       | MS Teams                                                      | Coming Soon        | 730             | 10      | 15      | 1               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 10                                                                                                                                                                        | HSE TMP : Fire Watcher (VILT)                                                       | VILT       | MS Teams                                                      | Coming Soon        | 730             | 10      | 15      | 1               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 11                                                                                                                                                                        | HSE TMP : Fundamental of Environmental Management (VILT)                            | VILT       | MS Teams                                                      | Yes                | 730             | 10      | 15      | 1               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 12                                                                                                                                                                        | HSE TMP : Fundamental of Process Safety (VILT)                                      | VILT       | MS Teams                                                      | Yes                | 730             | 10      | 15      | 1               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 13                                                                                                                                                                        | HSE TMP : Handling of Scheduled Waste (VILT)                                        | VILT       | MS Teams                                                      | Yes                | 730             | 10      | 15      | 1               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 14                                                                                                                                                                        | HSE TMP : Hands-on Application of BowTie XP Software for Conducting Risk Assessment | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 3,400           | 10      | 15      | 2               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 15                                                                                                                                                                        | HSE TMP : Hands-on Experience in Using Bow Tie XP Software                          | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 3,100           | 10      | 15      | 2               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |



# NET UPG: Health, Safety & Environment (HSE) – HSE Training Matrix Programme

| Programme Leader:<br>Raja Surida Binti Saiful Bahri<br>+609-668 6346<br>+016-333 4094<br><a href="mailto:rajasurida.sb@petronas.com.my">rajasurida.sb@petronas.com.my</a> |                                                                                         |          |          |             |       |    |    |   |             | 2022                                            |     |     |     |     |      |      |     |      |     |     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------|----------|-------------|-------|----|----|---|-------------|-------------------------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
|                                                                                                                                                                           |                                                                                         |          |          |             |       |    |    |   |             | Jan                                             | Feb | Mac | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 16                                                                                                                                                                        | HSE TMP : Hazard and Effect Management Process (HEMP) (VILT)                            | VILT     | MS Teams | Yes         | 1,610 | 10 | 15 | 3 | Coming Soon | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |      |      |     |      |     |     |     |
| 17                                                                                                                                                                        | HSE TMP : Job Hazard Analysis (JHA) (VILT)                                              | VILT     | MS Teams | Coming Soon | 730   | 10 | 15 | 1 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 18                                                                                                                                                                        | HSE TMP : Manual Handling (VILT)                                                        | VILT     | MS Teams | Coming Soon | 730   | 10 | 15 | 1 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 19                                                                                                                                                                        | HSE TMP : Mercury Safety (VILT)                                                         | VILT     | MS Teams | Coming Soon | 730   | 10 | 15 | 1 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 20                                                                                                                                                                        | HSE TMP : Noise & Hearing Conservation Awareness (VILT)                                 | VILT     | MS Teams | Coming Soon | 730   | 10 | 15 | 1 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 21                                                                                                                                                                        | HSE TMP : Personal Protective Equipment (PPE) (VILT)                                    | VILT     | MS Teams | Coming Soon | 730   | 10 | 15 | 1 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 22                                                                                                                                                                        | HSE TMP : PTW Awareness Training (VILT)                                                 | VILT     | MS Teams | Coming Soon | 730   | 10 | 15 | 1 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 23                                                                                                                                                                        | HSE TMP : PTW Competency Training (VILT)                                                | VILT     | MS Teams | Coming Soon | 1,170 | 10 | 15 | 2 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 24                                                                                                                                                                        | HSE TMP : RA Tools Training (BowTie, HAZID, HAZOP, P-HAZOP and PASR Application) (VILT) | VILT     | MS Teams | Yes         | 1,170 | 10 | 15 | 2 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 25                                                                                                                                                                        | HSE TMP : Rakan HSSE (VILT)                                                             | VILT     | MS Teams | Coming Soon | 1,170 | 10 | 15 | 2 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 26                                                                                                                                                                        | HSE TMP : Root Cause Analysis (Incident Investigation) - 5 Why & Tripod Beta (VILT)     | VILT     | MS Teams | Yes         | 1,170 | 10 | 15 | 2 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 27                                                                                                                                                                        | HSE TMP : Safe Handling of Chemicals (SHOC) (VILT)                                      | VILT     | MS Teams | Yes         | 1,170 | 10 | 15 | 2 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 28                                                                                                                                                                        | HSE TMP : Safety and Health Committee (VILT)                                            | VILT     | MS Teams | Coming Soon | 730   | 10 | 15 | 1 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 29                                                                                                                                                                        | HSE TMP : Safety Leadership (VILT)                                                      | VILT     | MS Teams | Coming Soon | 730   | 10 | 15 | 1 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 30                                                                                                                                                                        | HSE TMP : Working at Height & Rescue                                                    | F2F (NR) | INSTEP*  | Yes         | 1,360 | 10 | 15 | 2 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 31                                                                                                                                                                        | HSE TMP : Working at Height Awareness (VILT)                                            | VILT     | MS Teams | Yes         | 730   | 10 | 15 | 1 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

# NET UPG: Health, Safety & Environment (HSE) – HSE Training Matrix Programme

| Programme Leader:<br>Ahmad Yusuf B Hussain<br>+609-668 6226<br>+6013-239 0864<br><a href="mailto:yusuf.hussain@petronas.com.my">yusuf.hussain@petronas.com.my</a> |                                          |            |          |                    |                 |         |         |                 |                | 2022           |               |               |     |     |         |      |     |       |     |     |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------|----------|--------------------|-----------------|---------|---------|-----------------|----------------|----------------|---------------|---------------|-----|-----|---------|------|-----|-------|-----|-----|-------|
|                                                                                                                                                                   |                                          | Prog. Type | Venue    | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | Jan            | Feb           | Mar           | Apr | May | June    | July | Aug | Sept  | Oct | Nov | Dec   |
| 1                                                                                                                                                                 | HSE TMP : Marine For Non-Mariners (VILT) | VILT       | MS Teams | Coming Soon        | 530             | 10      | 25      | 2               | Coming Soon    | 12-13<br>26-27 | 9-10<br>23-24 | 9-10<br>23-24 |     |     |         |      |     |       |     |     |       |
| 2                                                                                                                                                                 | HSE TMP : Marine For Non-Mariners        | F2F (NR)   | Kerteh   | Coming Soon        | 2,370           | 10      | 25      | 3               | Coming Soon    |                |               |               |     |     | 21 - 23 |      |     |       |     |     |       |
| 3                                                                                                                                                                 |                                          | F2F (NR)   | Labuan   | Coming Soon        | 2,370           | 10      | 25      | 3               | Coming Soon    |                |               |               |     |     |         |      |     | 20-22 |     |     | 13-15 |

## NET UPG: General Studies

| Programme Leader:<br>Muhammad Badiuzzaman Bin Rusli<br>+609-6686 295<br>+019-3417 612<br>mbadiuzzaman.rusli@petronas.com.my |                                                                          | Prog.<br>Type | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | HRD Corp<br>Claimable | Course Fee<br>(RM) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | 2022 |     |     |     |        |         |         |        |         |      |         |     |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------|-----------------------|--------------------|------------|------------|--------------------|------|-----|-----|-----|--------|---------|---------|--------|---------|------|---------|-----|
|                                                                                                                             |                                                                          |               |                                                                           |                       |                    |            |            |                    | Jan  | Feb | Mac | Apr | May    | June    | July    | Aug    | Sept    | Oct  | Nov     | Dec |
| English Empowerment for NET                                                                                                 |                                                                          |               |                                                                           |                       |                    |            |            |                    |      |     |     |     |        |         |         |        |         |      |         |     |
| 1                                                                                                                           | NET GS : English Writing Empowerment for NET<br><div>UPDATED DATE</div>  | F2F (NR)      | INSTEP*                                                                   | Yes                   | 1,940              | 8          | 15         | 3                  |      |     |     |     |        |         |         |        | 4-6     | 8-10 |         |     |
|                                                                                                                             |                                                                          | F2F (NR)      | KL                                                                        | Yes                   | 2,260              | 8          | 15         | 3                  |      |     |     |     |        |         |         | 12-14  |         |      |         |     |
|                                                                                                                             |                                                                          | F2F (NR)      | Johor Bharu                                                               | Yes                   | 2,280              | 8          | 15         | 3                  |      |     |     |     |        |         |         |        | 18 - 20 |      |         |     |
|                                                                                                                             |                                                                          | F2F (NR)      | Kota Kinabalu                                                             | Yes                   | 2,720              | 8          | 15         | 3                  |      |     |     |     |        |         |         |        |         |      | 13 - 15 |     |
| 2                                                                                                                           | NET GS : English Writing Empowerment for NET (VILT)                      | VILT          | MS Teams                                                                  | Yes                   | 1,740              | 5          | 15         | 3                  |      |     |     |     | 24 -26 |         |         | 9 - 11 |         |      |         |     |
| 3                                                                                                                           | NET GS : English Speaking Empowerment for NET<br><div>UPDATED DATE</div> | F2F (NR)      | INSTEP*                                                                   | Yes                   | 1,940              | 8          | 15         | 3                  |      |     |     |     |        |         |         |        | 6 - 8   |      | 6 - 8   |     |
|                                                                                                                             |                                                                          | F2F (NR)      | KL                                                                        | Yes                   | 2,260              | 10         | 15         | 3                  |      |     |     |     |        |         |         |        | 20 - 22 |      |         |     |
|                                                                                                                             |                                                                          | F2F (NR)      | Johor Bharu                                                               | Yes                   | 2,280              | 10         | 15         | 3                  |      |     |     |     |        |         |         |        |         | 1-3  |         |     |
| 4                                                                                                                           | NET GS : English Speaking Empowerment for NET (VILT)                     | VILT          | MS Teams                                                                  | Yes                   | 1,740              | 5          | 15         | 3                  |      |     |     |     |        | 14 - 16 | 26 - 28 |        |         |      |         |     |



# Assessment & Certification (A&C)



# A&C: Exploration & Production (E&P) Special Project

| Programme Leader :<br>Siti Suhaili Shuib<br>+609-668 6150<br>+6013-586 8208<br>sitisuhaili.shuib@petronas.com.my |                                                                                | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee** (RM)<br>(Fee is Inclusive of Assessment) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022                            |       |       |     |       |       |       |       |       |       |       |       |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------|---------------------------------------------------------------|--------------------|-------------------------------------------------------|---------|---------|-----------------|----------------|---------------------------------|-------|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|
|                                                                                                                  |                                                                                |            |                                                               |                    |                                                       |         |         |                 |                | Jan                             | Feb   | Mac   | Apr | May   | June  | July  | Aug   | Sept  | Oct   | Nov   | Dec   |
| Advanced Pigging Operation Certification Scheme (APOCS)                                                          |                                                                                |            |                                                               |                    |                                                       |         |         |                 |                |                                 |       |       |     |       |       |       |       |       |       |       |       |
| 1                                                                                                                | A&C : Advanced Pigging Operation Certification Scheme (APOCS)                  | F2F (NR)   | INSTEP*                                                       | Yes                | 7,000                                                 | 10      | 20      | 5               | Coming Soon    | 23-27                           | 20-24 | 13-17 |     |       | 12-16 | 17-21 |       | 18-22 |       | 13-17 | 18-22 |
| 2                                                                                                                | A&C : APOCS Reassessment                                                       | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 1,410                                                 | 5       | 5       | 2               | Coming Soon    | Upon Request (Click to Enquire) |       |       |     |       |       |       |       |       |       |       |       |
| Upstream Panel Operator Certification Programme (UPOCP)                                                          |                                                                                |            |                                                               |                    |                                                       |         |         |                 |                |                                 |       |       |     |       |       |       |       |       |       |       |       |
| 1                                                                                                                | A&C : UPOCP: Control Room Operator – Emergency Response Preparedness (CRO-ERP) | F2F (NR)   | INSTEP*                                                       | Yes                | 7,000                                                 | 6       | 6       | 3               | Coming Soon    |                                 | 7-9   | 28-30 |     |       | 13-15 |       | 8-10  |       | 3-5   |       | 6-8   |
| 2                                                                                                                | A&C : UPOCP: CRO-ERP Reassessment                                              | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 1,800                                                 | 5       | 5       | 3               | Coming Soon    | Upon Request (Click to Enquire) |       |       |     |       |       |       |       |       |       |       |       |
| 3                                                                                                                | A&C : UPOCP: Operator Training Simulator (OTS) Assessment                      | F2F (NR)   | PMA Kerteh                                                    | Yes                | 2,650                                                 | 10      | 14      | 4               | Coming Soon    | 10-13                           |       | 6-9   |     |       |       | 3-6   |       |       | 16-19 |       |       |
| 4                                                                                                                | A&C : UPOCP: Operator Training Simulator (OTS) Assessment                      | F2F (NR)   | SKO Miri                                                      | Coming Soon        | 3,080                                                 | 10      | 11      | 4               | Coming Soon    |                                 | 14-17 |       |     |       | 27-30 |       |       | 26-29 |       |       |       |
| 5                                                                                                                | A&C : UPOCP: Operator Training Simulator (OTS) Assessment                      | F2F (NR)   | SBA KK                                                        | Yes                | 3,150                                                 | 10      | 15      | 4               | Coming Soon    |                                 |       | 21-14 |     | 23-26 |       |       | 15-18 |       |       |       | 19-22 |
| 6                                                                                                                | A&C : UPOCP: Operator Training Simulator (OTS) Assessment (VILT)               | VILT       | MS Teams                                                      | Coming Soon        | 4,870                                                 | 4       | 6       | 4               | Coming Soon    | Upon Request (Click to Enquire) |       |       |     |       |       |       |       |       |       |       |       |
| 7                                                                                                                | A&C : UPOCP: OTS Reassessment (VILT)                                           | VILT       | MS Teams                                                      | Coming Soon        | 1,500                                                 | 4       | 6       | 1               | Coming Soon    |                                 |       |       |     |       |       |       |       |       |       |       |       |
| 8                                                                                                                | A&C : UPOCP: OTS Reassessment                                                  | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 1,650                                                 | 5       | 5       | 4               | Coming Soon    |                                 |       |       |     |       |       |       |       |       |       |       |       |
| 9                                                                                                                | A&C : UPOCP: OTS Training of Trainer (TOT)                                     | F2F (NR)   | INSTEP*                                                       | Yes                | 1,830                                                 | 12      | 20      | 3               | Coming Soon    | 10-12                           |       |       |     |       |       |       |       |       |       |       |       |
| ProAssure Composite Wrap Design & Installation                                                                   |                                                                                |            |                                                               |                    |                                                       |         |         |                 |                |                                 |       |       |     |       |       |       |       |       |       |       |       |
| 1                                                                                                                | A&C : ProAssure Composite Wrap Design & Installation ( Level 1) (VILT)         | VILT       | MS Teams                                                      | Coming Soon        | 1,000                                                 | 10      | 20      | 1               | Coming Soon    |                                 | 17    |       | 12  |       | 13    |       | 1     |       | 17    | 21    |       |
| 2                                                                                                                | A&C : ProAssure Composite Wrap Design & Installation ( Level 2 & 3 )           | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 3,900                                                 | 10      | 20      | 2               | Coming Soon    | Upon Request (Click to Enquire) |       |       |     |       |       |       |       |       |       |       |       |

## A&C: Process & Analytical (P&A) – Panel Operator Training & Certification Programme (POTCP)

| Programme Leader:<br>Muhamad Faizzudin Bin Ahmad Azhar<br>+609-668 6120<br>+014-512 8724<br><a href="mailto:muhamadfaizzudin.ah@petronas.com.my">muhamadfaizzudin.ah@petronas.com.my</a> |                                                   | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |       |     |       |       |       |       |       |       |       |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-------|-----|
|                                                                                                                                                                                          |                                                   |            |                                                               |                    |                 |         |         |                 |                | Jan  | Feb | Mar   | Apr | May   | June  | July  | Aug   | Sept  | Oct   | Nov   | Dec |
| 1                                                                                                                                                                                        | A&C : POTCP 01 - Distributed Control System (DCS) | F2F (NR)   | INSTEP*                                                       | Yes                | 2,840           | 11      | 15      | 3               | Coming Soon    |      |     |       |     |       |       | 19-21 |       | 20-22 | 04-06 | 08-10 |     |
| 2                                                                                                                                                                                        | A&C : POTCP 02 - Process Control                  | F2F (NR)   | INSTEP*                                                       | Yes                | 2,840           | 11      | 15      | 3               | Coming Soon    |      |     |       |     |       |       |       | 02-04 |       | 18-20 | 29-01 |     |
| 3                                                                                                                                                                                        | A&C : POTCP 03 - Process Troubleshooting          | F2F (NR)   | KL                                                            | Yes                | 3,110           | 12      | 20      | 2               | Coming Soon    |      |     |       |     |       |       | 13-14 | 10-11 |       |       |       |     |
| 4                                                                                                                                                                                        | A&C : POTCP 04 - Plant Operation Practice         | F2F (NR)   | KL                                                            | Yes                | 3,110           | 12      | 20      | 2               | Coming Soon    |      |     |       |     |       |       |       |       |       | 12-13 | 16-17 |     |
| 5                                                                                                                                                                                        | A&C : POTCP 05 - Process Safety Practice          | F2F (NR)   | KL                                                            | Yes                | 3,110           | 12      | 20      | 2               | Coming Soon    |      |     |       |     |       |       | 25-26 |       |       |       | 21-22 |     |
| 6                                                                                                                                                                                        | A&C : POTCP 03 - Process Troubleshooting (VILT)   | VILT       | MS Teams                                                      | Yes                | 1,910           | 12      | 15      | 2               | Coming Soon    |      |     | 09-10 |     |       | 15-16 |       |       |       |       |       |     |
| 7                                                                                                                                                                                        | A&C : POTCP 04 - Plant Operation Practice (VILT)  | VILT       | MS Teams                                                      | Yes                | 1,910           | 12      | 15      | 2               | Coming Soon    |      |     |       |     | 18-19 |       |       |       |       |       |       |     |
| 8                                                                                                                                                                                        | A&C : POTCP 05 - Process Safety Practice (VILT)   | VILT       | MS Teams                                                      | Yes                | 1,910           | 12      | 15      | 2               | Coming Soon    |      |     |       |     |       | 20-21 |       |       |       |       |       |     |

## A&C: Process & Analytical (P&A) – Vessel Familiarisation & Shipshore Safety Checklist

| Programme Leader :<br>Siti Suhaili Shuib<br>+609-668 6150<br>+6013-586 8208<br>sitisuhaili.shuib@petronas.com.my |                                                                                    |          |                   |             |       |   |    |   |             | 2022                                            |     |     |     |     |      |      |     |      |     |     |     |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------|-------------------|-------------|-------|---|----|---|-------------|-------------------------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
|                                                                                                                  |                                                                                    |          |                   |             |       |   |    |   |             | Jan                                             | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 1                                                                                                                | A&C : Vessel Familiarisation & Shipshore Safety Checklist                          | F2F (NR) | Melaka/<br>Kertih | Yes         | 3,930 | 7 | 10 | 4 | Coming Soon | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |      |      |     |      |     |     |     |
| 2                                                                                                                | A&C : Vessel Familiarisation & Shipshore Safety Checklist (knowledge level) (VILT) | VILT     | MS Teams          | Coming Soon | 1,050 | 5 | 15 | 2 | Coming Soon |                                                 |     |     |     |     |      |      |     |      |     |     |     |



## A&C: Process & Analytical (P&A) – CePIETSO (BP)

| Programme Leader :<br>Siti Suhaili Shuib<br>+609-668 6150<br>+6013-586 8208<br><a href="mailto:sitisuhaili.shuib@petronas.com.my">sitisuhaili.shuib@petronas.com.my</a> |                                                                                                                                       | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022          |       |       |     |       |       |      |                   |       |                   |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|---------------|-------|-------|-----|-------|-------|------|-------------------|-------|-------------------|-------|-------|
|                                                                                                                                                                         |                                                                                                                                       |            |                                                               |                    |                 |         |         |                 |                | Jan           | Feb   | Mar   | Apr | May   | June  | July | Aug               | Sept  | Oct               | Nov   | Dec   |
| 1                                                                                                                                                                       | A&C: Certified Environmental Professional in the Operation of Industrial Effluent Treatment Systems (Biological Process)- CePIETSO BP | F2F (NR)   | INSTEP*                                                       | Yes                | 5,000           | 13      | 24      | 5               | Coming Soon    | 9-13<br>23-27 | 13-17 | 20-24 |     | 22-26 | 19-23 | 3-7  | 31/7-4/8<br>21-25 | 18-22 | 2-6<br>30/10-3/11 | 20-24 | 11-15 |

# A&C: Mechanical & Inspection (M&I) – PESITAS

| Programme Leader :<br>Suhaili Hamah Muding-Muhamad<br>+609-668 6065<br>+6010-236 5883<br>suhaili.hamahmuding@petronas.com.my |                                                                                      |            |                   |                    |                 |         |         |                 |                | 2022                                            |       |       |     |             |       |       |       |       |       |       |     |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------|-------------------|--------------------|-----------------|---------|---------|-----------------|----------------|-------------------------------------------------|-------|-------|-----|-------------|-------|-------|-------|-------|-------|-------|-----|
|                                                                                                                              |                                                                                      | Prog. Type | Venue             | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | Jan                                             | Feb   | Mar   | Apr | May         | June  | July  | Aug   | Sept  | Oct   | Nov   | Dec |
| 1                                                                                                                            | A&C : PESITAS: ICE Driver Grade 2 & 1 (VILT)                                         | VILT       | MS Teams          | Yes                | 1,770           | 10      | 20      | 3               | Coming Soon    |                                                 | 14-16 | 8-10  |     | 9-11        | 14-16 | 4-6   | 16-18 | 6-8   | 11-13 |       |     |
| 2                                                                                                                            | A&C : PESITAS: ICE Driver Grade 2 & 1                                                | F2F (NR)   | KL                | Yes                | 3,220           | 10      | 20      | 3               | Coming Soon    |                                                 |       |       |     |             |       |       | 22-24 | 20-22 | 17-19 | 14-16 |     |
| 3                                                                                                                            | A&C : PESITAS: ICE Engineer Grade 2 & 1 (VILT)                                       | VILT       | MS Teams          | Coming Soon        | 2,210           | 9       | 20      | 4               | Coming Soon    |                                                 | 7-10  | 14-17 |     | 23-26       | 20-23 | 18-21 |       |       |       |       |     |
| 4                                                                                                                            | A&C : PESITAS: ICE Engineer Grade 2 & 1                                              | F2F (NR)   | KL                | Yes                | 4,310           | 9       | 20      | 4               | Coming Soon    |                                                 |       |       |     |             |       |       | 8-11  | 26-29 | 3-6   |       |     |
| 5                                                                                                                            | A&C : PESITAS: Preparatory for ICE Driver Grade 2 & 1 (Oral)                         | F2F (NR)   | KL/Kerteh/INSTEP* | Yes                | 2,040           | 6       | 20      | 2               | Coming Soon    | <a href="#">Upon Request (Click to enquire)</a> |       |       |     |             |       |       |       |       |       |       |     |
| 6                                                                                                                            | A&C : PESITAS: Preparatory for ICE Driver Grade 2 & 1 (Oral) (VILT)                  | VILT       | MS Teams          | Yes                | 1,330           | 6       | 20      | 2               | Coming Soon    |                                                 |       |       |     |             |       |       |       |       |       |       |     |
| 7                                                                                                                            | A&C : PESITAS: Preparatory for ICE Engineer Grade 2 & 1 (Oral) (VILT)                | VILT       | MS Teams          | Yes                | 1,330           | 6       | 20      | 2               | Coming Soon    |                                                 |       |       |     |             |       |       |       | 28-29 |       |       |     |
| 8                                                                                                                            | A&C : PESITAS: Preparatory for ICE Engineer Grade 2 & 1 (Paper B) (VILT)             | VILT       | MS Teams          | Coming Soon        | 1,330           | 6       | 20      | 2               | Coming Soon    |                                                 |       |       |     |             |       |       |       |       |       | 1-2   |     |
| 9                                                                                                                            | A&C : PESITAS: Preparatory for Steam Boiler Driver Grade 2 & 1 (Oral)                | F2F (NR)   | KL/Kerteh/INSTEP* | Yes                | 2,270           | 6       | 20      | 2               | Coming Soon    | <a href="#">Upon Request (Click to enquire)</a> |       |       |     |             |       |       |       |       |       |       |     |
| 10                                                                                                                           | A&C : PESITAS: Preparatory for Steam Boiler Driver Grade 2 & 1 (Oral) (VILT)         | VILT       | MS Teams          | Yes                | 1,330           | 6       | 20      | 2               | Coming Soon    |                                                 |       |       |     |             |       |       |       |       |       |       |     |
| 11                                                                                                                           | A&C : PESITAS: Preparatory for Steam Boiler Engineer Grade 2 & 1 (Oral) (VILT)       | VILT       | MS Teams          | Yes                | 1,330           | 6       | 20      | 2               | Coming Soon    |                                                 |       |       |     |             |       |       | 29-30 |       |       |       |     |
| 12                                                                                                                           | A&C : PESITAS: Preparatory for Steam Boiler Engineer Grade 2 & 1 (Paper B) (VILT)    | VILT       | MS Teams          | Yes                | 1,330           | 6       | 20      | 2               | Coming Soon    |                                                 |       |       |     |             |       |       |       |       | 26-27 |       |     |
| 13                                                                                                                           | A&C : PESITAS: Preparatory for Steam Boiler/ICE Engineer Grade 2 & 1 (Part A)        | F2F (NR)   | KL/Kerteh/INSTEP* | Coming Soon        | 3,530           | 8       | 20      | 5               | Coming Soon    | <a href="#">Upon Request (Click to enquire)</a> |       |       |     |             |       |       |       |       |       |       |     |
| 14                                                                                                                           | A&C : PESITAS: Preparatory for Steam Boiler/ICE Engineer Grade 2 & 1 (Part A) (VILT) | VILT       | MS Teams          | Coming Soon        | 1,330           | 8       | 20      | 5               | Coming Soon    |                                                 |       |       |     |             |       |       |       |       |       |       |     |
| 15                                                                                                                           | A&C : PESITAS: Steam Boiler Driver Grade 2 & 1 (VILT)                                | VILT       | MS Teams          | Yes                | 1,770           | 10      | 20      | 3               | Coming Soon    |                                                 | 21-23 | 21-23 |     | 30/05-01/06 | 25-27 | 2-4   | 12-14 |       | 7-9   |       |     |
| 16                                                                                                                           | A&C : PESITAS: Steam Boiler Driver Grade 2 & 1                                       | F2F (NR)   | KL/Kerteh/INSTEP* | Yes                | 3,390           | 10      | 20      | 3               | Coming Soon    |                                                 |       |       |     |             |       |       | 9-11  | 27-29 | 18-20 |       |     |
| 17                                                                                                                           | A&C : PESITAS: Steam Boiler Engineer Grade 2 & 1 (VILT)                              | VILT       | MS Teams          | Yes                | 2,210           | 9       | 20      | 4               | Coming Soon    |                                                 | 14-17 |       |     |             | 13-16 |       |       | 19-22 |       |       |     |
| 18                                                                                                                           | A&C : PESITAS: Steam Boiler Engineer Grade 2 & 1                                     | F2F (NR)   | KL/Kerteh/INSTEP* | Yes                | 4,700           | 9       | 20      | 4               | Coming Soon    |                                                 |       |       |     |             |       |       | 22-25 | 17-20 |       | 21-24 |     |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

# A&C: Mechanical & Inspection (M&I) – PMS, PRBI, ICML, ASNT & MIBOC

| Programme Leader :<br>Suhaili Hamah Muding-Muhamad<br>+609-668 6065<br>+6010-236 5883<br>suhaili.hamahmuding@petronas.com.my |                                                                             | Prog.<br>Type | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | HRD Corp<br>Claimable | Course Fee<br>(RM) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | MBOT CPD<br>Hours | 2022                            |       |       |       |       |       |       |       |      |       |              |     |  |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------|-----------------------|--------------------|------------|------------|--------------------|-------------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|------|-------|--------------|-----|--|
|                                                                                                                              |                                                                             |               |                                                                           |                       |                    |            |            |                    |                   | Jan                             | Feb   | Mac   | Apr   | May   | June  | July  | Aug   | Sept | Oct   | Nov          | Dec |  |
| PMS: Internal Regulator Competency Programme (IRCP)                                                                          |                                                                             |               |                                                                           |                       |                    |            |            |                    |                   |                                 |       |       |       |       |       |       |       |      |       |              |     |  |
| 1                                                                                                                            | A&C : IRCP: Compliance to FMA 1967 and Regulations (VILT)                   | VILT          | MS Teams                                                                  | Coming Soon           | 1,320              | 10         | 20         | 2                  | Coming Soon       |                                 | 23-24 |       | 13-14 |       |       | 13-14 |       | 7-8  |       |              |     |  |
| 2                                                                                                                            | A&C : IRCP: Compliance to Regulations Under OSHA 1994 (VILT)                | VILT          | MS Teams                                                                  | Coming Soon           | 1,320              | 10         | 20         | 2                  | Coming Soon       |                                 | 9-10  | 9-10  |       |       | 8-9   |       | 10-11 |      |       |              |     |  |
| 3                                                                                                                            | A&C : IRCP: ISO 45001:2018 Lead Auditor (IRCA & CQI Certified) (VILT)       | VILT          | MS Teams                                                                  | Yes                   | 4,700              | 10         | 12         | 5                  | Coming Soon       |                                 |       | 21-25 |       | 9-13  | 13-17 |       | 8-12  |      | 10-14 | 7-11         |     |  |
| 4                                                                                                                            | A&C : IRCP: Plant Management System (PMS) (VILT)                            | VILT          | MS Teams                                                                  | Yes                   | 2,700              | 10         | 15         | 4                  | Coming Soon       |                                 |       |       |       | 23-26 |       |       |       | 5-8  |       |              |     |  |
| 5                                                                                                                            | A&C : IRCP: Plant Management System (PMS)                                   | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 4,300              | 10         | 15         | 4                  | Coming Soon       |                                 |       |       |       |       |       |       |       |      | 17-20 | 28/11 - 1/12 |     |  |
| 6                                                                                                                            | A&C : IR Competency Assessment                                              | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 1,540              | 7          | 15         | 1                  | Coming Soon       | Upon Request (Click to enquire) |       |       |       |       |       |       |       |      |       |              |     |  |
| 7                                                                                                                            | A&C : IR Competency Assessment (VILT)                                       | VILT          | MS Teams                                                                  | Coming Soon           | 420                | 7          | 15         | 1                  | Coming Soon       |                                 |       |       |       |       |       |       |       |      |       |              |     |  |
| 8                                                                                                                            | A&C : IRCP: ISO 45001:2018 Awareness                                        | F2F (NR)      | KL / INSTEP*                                                              | Yes                   | 1,230              | 10         | 20         | 2                  | Coming Soon       |                                 |       | 15-16 |       |       |       |       | 3-4   |      |       |              |     |  |
| PETRONAS Risk Based Inspection (PRBI)                                                                                        |                                                                             |               |                                                                           |                       |                    |            |            |                    |                   |                                 |       |       |       |       |       |       |       |      |       |              |     |  |
| 1                                                                                                                            | A&C : PRBI User Certification Programme                                     | F2F (NR)      | KL                                                                        | Coming Soon           | 3,200              | 10         | 15         | 2                  | Coming Soon       |                                 |       |       |       |       | 29-30 |       |       |      |       |              | 1-2 |  |
| 2                                                                                                                            | A&C : PRBI User Certification Programme Reassessment                        | F2F (NR)      | KL                                                                        | Yes                   | 1,080              | 5          | 5          | 1                  | Coming Soon       | Upon Request (Click to Enquire) |       |       |       |       |       |       |       |      |       |              |     |  |
| International Council for Machinery Lubrication (ICML)                                                                       |                                                                             |               |                                                                           |                       |                    |            |            |                    |                   |                                 |       |       |       |       |       |       |       |      |       |              |     |  |
| 1                                                                                                                            | A&C : ICML Machine Lubricant Analyst (MLA) Certification - Level I          | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 5,530              | 10         | 15         | 4                  | Coming Soon       |                                 |       |       |       |       |       |       | 15-18 |      |       |              |     |  |
| 2                                                                                                                            | A&C : ICML Machine Lubricant Analyst (MLA) Certification - Level II         | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 6,020              | 10         | 15         | 4                  | Coming Soon       |                                 |       |       |       |       |       |       |       | 5-8  |       |              |     |  |
| 3                                                                                                                            | A&C : ICML Machine Lubricant Analyst (MLA) Certification - Level III (VILT) | VILT          | MS Teams                                                                  | Coming Soon           | 7,100              | 10         | 15         | 4                  | Coming Soon       |                                 |       |       |       |       | 20-23 |       |       |      |       |              |     |  |
| American Society for Non-Destructive Testing (ASNT)                                                                          |                                                                             |               |                                                                           |                       |                    |            |            |                    |                   |                                 |       |       |       |       |       |       |       |      |       |              |     |  |
| 1                                                                                                                            | A&C : SNT-TC-1A Ultrasonic Testing (UT) Certification - Level I             | F2F (NR)      | INSTEP*                                                                   | Yes                   | 4,640              | 10         | 15         | 5                  | Coming Soon       |                                 |       |       |       |       |       | 25-29 |       |      |       |              |     |  |
| Mobius Institute Board Of Certification (MIBOC)                                                                              |                                                                             |               |                                                                           |                       |                    |            |            |                    |                   |                                 |       |       |       |       |       |       |       |      |       |              |     |  |
| 1                                                                                                                            | A&C : Vibration Certification Programme Entry - CAT I (VILT)                | VILT          | MS Teams                                                                  | Coming Soon           | 7,620              | 10         | 15         | 4                  | Coming Soon       |                                 |       | 14-17 |       |       |       |       |       |      |       |              |     |  |
| 2                                                                                                                            | A&C : Vibration Certification Programme Intermediate - CAT II               | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 8,490              | 10         | 15         | 5                  | Coming Soon       |                                 |       |       |       |       |       |       | 22-26 |      |       |              |     |  |
| 3                                                                                                                            | A&C : Vibration Certification Program Advanced - CAT III                    | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 9,980              | 10         | 15         | 5                  | Coming Soon       |                                 |       |       |       |       |       |       |       |      |       | 14-18        |     |  |

- Course fee stated above EXCLUDES tax
- HRD Corp Claimable for selected INSTEP programmes

# A&C: Electrical – IECEx Competency Training Programme & Assessment

| Programme Leader:<br>Muhamad Faizzudin Bin Ahmad Azhar<br>+609-668 6120<br>+014-512 8724<br><a href="mailto:muhamadfaizzudin.ah@petronas.com.my">muhamadfaizzudin.ah@petronas.com.my</a> |                                                                                            | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022                                            |     |         |     |     |       |       |        |      |               |       |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|-------------------------------------------------|-----|---------|-----|-----|-------|-------|--------|------|---------------|-------|-----|
|                                                                                                                                                                                          |                                                                                            |            |                                                               |                    |                 |         |         |                 |                | Jan                                             | Feb | Mar     | Apr | May | June  | July  | Aug    | Sept | Oct           | Nov   | Dec |
| 1                                                                                                                                                                                        | A&C : IECEx Unit Ex001 Competency Training Programme (VILT)                                | VILT       | MS Teams                                                      | Coming Soon        | 1,800           | 5       | 16      | 3               | Coming Soon    |                                                 |     | 29 - 31 |     |     | 28-30 |       |        |      |               |       |     |
| 2                                                                                                                                                                                        | A&C : IECEx Unit Ex001 Competency Training Programme & Assessment **                       | F2F (NR)   | KL                                                            | Yes                | 4,950           | 5       | 10      | 2               | Coming Soon    |                                                 |     |         |     |     |       |       | 29- 30 |      |               | 29-30 |     |
| 3                                                                                                                                                                                        | A&C : IECEx Unit Ex001 & Ex003 Competency Training Programme & Assessment **               | F2F (NR)   | INSTEP*                                                       | Yes                | 8,430           | 5       | 11      | 4               | Coming Soon    |                                                 |     |         |     |     |       |       |        |      | 10-13         |       |     |
| 4                                                                                                                                                                                        | A&C : IECEx Unit Ex001, Ex003, Ex007 & Ex008 Competency Training Programme & Assessment ** | F2F (NR)   | INSTEP*                                                       | Yes                | 11,650          | 5       | 13      | 5               | Coming Soon    |                                                 |     |         |     |     |       |       | 07-11  |      | 16-20         |       |     |
| 5                                                                                                                                                                                        | A&C : IECEx Unit Ex001, Ex004, Ex007 & Ex008 Competency Training Programme & Assessment ** | F2F (NR)   | INSTEP*                                                       | Yes                | 11,650          | 5       | 14      | 5               | Coming Soon    |                                                 |     |         |     |     |       |       |        |      |               | 13-17 |     |
| 6                                                                                                                                                                                        | A&C : IECEx Unit Ex001, Ex007 & Ex008 Competency Training Programme & Assessment **        | F2F (NR)   | INSTEP*                                                       | Yes                | 8,850           | 5       | 12      | 4               | Coming Soon    |                                                 |     |         |     |     |       | 18-21 |        |      |               |       |     |
| 7                                                                                                                                                                                        | A&C : IECEx Unit Ex001 & Ex009 Competency Training Programme & Assessment **               | F2F (NR)   | KL                                                            | Yes                | 9,690           | 5       | 15      | 4               | Coming Soon    |                                                 |     |         |     |     |       |       |        |      | 31/10 – 03/11 |       |     |
| 8                                                                                                                                                                                        | A&C : IECEx Refresher (Exclude Examination)                                                | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 670             | N/A     |         | N/A             | Coming Soon    | <a href="#">Upon Request (Click to Enquire)</a> |     |         |     |     |       |       |        |      |               |       |     |

## Note:

1. Fee is inclusive of Assessment\*\*
2. Assessment Date is subject to SIRIM's Availability



## A&C: Electrical – Chargeman Programme

| Programme Leader:<br>Muhamad Faizzudin Bin Ahmad Azhar<br>+609-668 6120<br>+014-512 8724<br>muhamadfaizzudin.ah@petronas.com.my |                                                | Prog.<br>Type | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | HRD Corp<br>Claimable | Course<br>Fee (RM) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | MBOT CPD<br>Hours | 2022        |                                                 |         |            |              |      |             |                       |      |     |     |     |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------|---------------------------------------------------------------------------|-----------------------|--------------------|------------|------------|--------------------|-------------------|-------------|-------------------------------------------------|---------|------------|--------------|------|-------------|-----------------------|------|-----|-----|-----|
|                                                                                                                                 |                                                |               |                                                                           |                       |                    |            |            |                    |                   | Jan         | Feb                                             | Mac     | Apr        | May          | June | July        | Aug                   | Sept | Oct | Nov | Dec |
| 1                                                                                                                               | A&C : A0 Chargeman                             | F2F (NR)      | INSTEP*                                                                   | Yes                   | 15,030             | 15         | 20         | 80                 | Coming Soon       |             |                                                 |         | 3/4 – 4/8  |              |      | 14/8 - 8/12 |                       |      |     |     |     |
| 2                                                                                                                               | A&C : A4 Chargeman                             | F2F (NR)      | INSTEP*                                                                   | Yes                   | 18,730             | 13         | 20         | 100                | Coming Soon       |             |                                                 |         |            | 22/5 - 20/10 |      |             |                       |      |     |     |     |
| 3                                                                                                                               | A&C : B0 Chargeman                             | F2F (NR)      | INSTEP*                                                                   | Yes                   | 20,990             | 10         | 20         | 100                | Coming Soon       |             |                                                 |         | 8/5 - 6/10 |              |      |             |                       |      |     |     |     |
| 4                                                                                                                               | A&C : B4 Chargeman                             | F2F (NR)      | INSTEP*                                                                   | Yes                   | 22,830             | 10         | 20         | 100                | Coming Soon       |             |                                                 |         |            |              |      |             | 10/10/2022 - 2/3/2023 |      |     |     |     |
| 5                                                                                                                               | A&C : Low Voltage Overhead Lines               | F2F (NR)      | INSTEP*                                                                   | Yes                   | 4,690              | 12         | 20         | 10                 | Coming Soon       |             |                                                 | 13 - 24 |            |              |      |             |                       |      |     |     |     |
| 6                                                                                                                               | A&C : High Voltage Overhead Lines              | F2F (NR)      | INSTEP*                                                                   | Yes                   | 6,980              | 12         | 20         | 13                 | Coming Soon       |             |                                                 |         |            |              |      | 24/7 - 04/8 |                       |      |     |     |     |
| 7                                                                                                                               | A&C : Low Voltage Generator And Synchronizing  | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 5,430              | N/A        |            |                    | 10                | Coming Soon | <a href="#">Upon Request (Click to Enquire)</a> |         |            |              |      |             |                       |      |     |     |     |
| 8                                                                                                                               | A&C : High Voltage Generator And Synchronizing | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 6,480              |            |            |                    | 10                | Coming Soon |                                                 |         |            |              |      |             |                       |      |     |     |     |
| 9                                                                                                                               | A&C : Refresher & Referral Examination         | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 2,580              |            |            |                    | 6                 | Coming Soon |                                                 |         |            |              |      |             |                       |      |     |     |     |
| 10                                                                                                                              | A&C : Referral Examination                     | F2F (NR)      | INSTEP*                                                                   | Coming Soon           | 510                |            |            |                    | 1                 | Coming Soon |                                                 |         |            |              |      |             |                       |      |     |     |     |

## A&C: Instrumentation

| Programme Leader:<br>Muhamad Faizzudin Bin Ahmad Azhar<br>+609-668 6120<br>+014-512 8724<br><a href="mailto:muhamadfaizzudin.ah@petronas.com.my">muhamadfaizzudin.ah@petronas.com.my</a> |                                                                                        | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |     |     |     |      |       |     |       |     |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-----|-----|-----|------|-------|-----|-------|-----|-------|-------|
|                                                                                                                                                                                          |                                                                                        |            |                                                               |                    |                 |         |         |                 |                | Jan  | Feb | Mar | Apr | May | June | July  | Aug | Sept  | Oct | Nov   | Dec   |
| 1                                                                                                                                                                                        | A&C : Certified Personnel for Metering Validation And Calibration Competency Programme | F2F (NR)   | INSTEP*                                                       | Yes                | 6,110           | 4       | 8       | 5               | Coming Soon    |      |     |     |     |     |      | 31-04 |     | 18-22 |     |       | 18-22 |
| 2                                                                                                                                                                                        | A&C : Instrument Fitter                                                                | F2F (NR)   | INSTEP*                                                       | Yes                | 4,310           | 4       | 8       | 4               | Coming Soon    |      |     |     |     |     |      |       |     |       |     | 28-01 |       |

## A&C: Health, Safety & Environment (HSE) – Authorised Entrant and Standby Person for Confined Space (AESP)

| Programme Leader :<br>Suhaili Hamah Muding- Muhamad<br>+609-668 6065<br>+6010-236 5883<br><a href="mailto:suhaili.hamahmuding@petronas.com.my">suhaili.hamahmuding@petronas.com.my</a> |                                                                            | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022                                            |     |     |     |     |      |      |     |      |     |     |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|-------------------------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
|                                                                                                                                                                                        |                                                                            |            |                                                               |                    |                 |         |         |                 |                | Jan                                             | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 1                                                                                                                                                                                      | A&C : Authorised Entrant and Standby Person for Confined Space             | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 870             | 10      | 20      | 2               | Coming Soon    | <a href="#">Upon Request (Click to enquire)</a> |     |     |     |     |      |      |     |      |     |     |     |
| 2                                                                                                                                                                                      | A&C : Authorised Entrant and Standby Person for Confined Space – Refresher | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 520             | 20      | 20      | 1               | Coming Soon    |                                                 |     |     |     |     |      |      |     |      |     |     |     |

## A&C: Health, Safety & Environment (HSE) – CePSWaM

| Programme Leader :<br>Siti Suhaili Shuib<br>+609-668 6150<br>+6013-586 8208<br><a href="mailto:sitisuhaili.shuib@petronas.com.my">sitisuhaili.shuib@petronas.com.my</a> |                                                                                    | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022  |       |          |     |          |          |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|-------|-------|----------|-----|----------|----------|-------|-------|-------|-------|-------|-------|
|                                                                                                                                                                         |                                                                                    |            |                                                               |                    |                 |         |         |                 |                | Jan   | Feb   | Mar      | Apr | May      | June     | July  | Aug   | Sept  | Oct   | Nov   | Dec   |
| 1                                                                                                                                                                       | A&C : Certified Environmental Professional in Scheduled Waste Management (CePSWaM) | F2F (NR)   | INSTEP*                                                       | Yes                | 3,750           | 10      | 35      | 5               | Coming Soon    |       |       | 13-17    |     |          |          | 24-28 |       |       |       | 13-17 |       |
|                                                                                                                                                                         |                                                                                    | F2F (NR)   | Kuala Lumpur/ Selangor                                        | Yes                | 3,750           | 10      | 35      | 5               | Coming Soon    | 24-28 | 14-18 | 28/3-1/4 |     | 30/5-3/6 |          | 4-8   | 22-26 | 19-23 | 10-14 | 21-25 | 12-16 |
|                                                                                                                                                                         |                                                                                    | F2F (NR)   | Johor Bharu                                                   | Yes                | 3,750           | 10      | 35      | 5               | Coming Soon    |       | 20-24 |          |     | 22-26    |          |       | 14-18 |       | 2-6   |       | 19-23 |
|                                                                                                                                                                         |                                                                                    | F2F (NR)   | Kuantan                                                       | Yes                | 3,750           | 10      | 35      | 5               | Coming Soon    |       |       |          |     |          | 27/6-1/7 |       |       |       | 17-21 |       |       |
|                                                                                                                                                                         |                                                                                    | F2F (NR)   | Penang                                                        | Yes                | 3,750           | 10      | 35      | 5               | Coming Soon    |       |       | 7-11     |     |          |          | 18-22 |       |       |       |       | 5-9   |
|                                                                                                                                                                         |                                                                                    | F2F (NR)   | Kota Kinabalu                                                 | Yes                | 3,750           | 10      | 35      | 5               | Coming Soon    |       |       | 21-25    |     |          |          |       | 8-12  |       |       |       |       |
|                                                                                                                                                                         |                                                                                    | F2F (NR)   | Miri                                                          | Yes                | 3,750           | 10      | 35      | 5               | Coming Soon    |       |       |          |     |          | 13-17    |       |       | 5-9   |       |       |       |



## A&C: Health, Safety & Environment (HSE) – Tripod Beta

| Programme Leader:<br>Siti Suhaili Bt Shuib<br>+609-668 6150<br>+6013-5868208<br><a href="mailto:sitisuhaili.shuib@petronas.com">sitisuhaili.shuib@petronas.com</a> |                                                             |            |                                                               |                    |                                                 |         |         |                 |                | 2022 |     |     |     |            |       |      |       |       |     |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------|---------------------------------------------------------------|--------------------|-------------------------------------------------|---------|---------|-----------------|----------------|------|-----|-----|-----|------------|-------|------|-------|-------|-----|-------|-------|
|                                                                                                                                                                    |                                                             | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM)                                 | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | Jan  | Feb | Mar | Apr | May        | June  | July | Aug   | Sept  | Oct | Nov   | Dec   |
| 1                                                                                                                                                                  | A&C : Tripod Beta - Bronze                                  | F2F (NR)   | KL                                                            | Coming Soon        | 6,470                                           | 10      | 20      | 3               | Coming Soon    |      |     |     |     |            |       |      |       |       |     |       |       |
| 2                                                                                                                                                                  | A&C : Tripod Beta - Bronze (VILT) <span>UPDATED DATE</span> | VILT       | MS Teams                                                      | Coming Soon        | 4,680                                           | 5       | 20      | 4               | Coming Soon    |      |     |     |     | 30/5 - 2/6 |       |      | 14-17 |       |     | 21-24 |       |
| 3                                                                                                                                                                  | A&C : Tripod Beta – Silver                                  | F2F (NR)   | KL                                                            | Coming Soon        | 4,710                                           | 10      | 10      | 2               | Coming Soon    |      |     |     |     |            |       |      |       |       |     |       |       |
| 4                                                                                                                                                                  | A&C : Tripod Beta – Silver (VILT) <span>UPDATED DATE</span> | VILT       | MS Teams                                                      | Coming Soon        | 3,420                                           | 5       | 10      | 3               | Coming Soon    |      |     |     |     |            | 14-16 |      |       | 20-22 |     |       | 13-15 |
| 5                                                                                                                                                                  | A&C : Tripod Beta - Gold                                    | F2F (NR)   | KL                                                            | Coming Soon        | <a href="#">Upon Request (Click to Enquire)</a> |         |         |                 |                |      |     |     |     |            |       |      |       |       |     |       |       |

## A&C: Health, Safety & Environment (HSE) – PCSB Permit to Work (PTW) Level 3

| Programme Leader:<br>Nurul Nadia Mohamad Sabry<br>+609-669 6000<br>+019-522 6554<br><a href="mailto:nurulnadia.mohamads@petronas.com">nurulnadia.mohamads@petronas.com</a> |                                                                | Level | Prog. Type | Venue                           | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022                                             |              |       |           |                    |             |                   |        |        |        |        |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------|------------|---------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|--------------------------------------------------|--------------|-------|-----------|--------------------|-------------|-------------------|--------|--------|--------|--------|-------|
|                                                                                                                                                                            |                                                                |       |            |                                 |                    |                 |         |         |                 |                | Jan                                              | Feb          | Mac   | Apr       | May                | June        | July              | Aug    | Sept   | Oct    | Nov    | Dec   |
| 1                                                                                                                                                                          | A&C : PCSB Permit to Work (PTW) Level 3 - New Candidate        | 3     | F2F (NR)   | Kerteh/ KL/ Kota Kinabalu/ Miri | Yes                | 1,370           | 15      | 25      | 3               | Coming Soon    | <a href="#">Upon Request ( Click to Enquire)</a> |              |       |           |                    |             |                   |        |        |        |        |       |
| 2                                                                                                                                                                          | A&C : PCSB Permit to Work (PTW) Level 3 - New Candidate (VILT) | 3     | VILT       | MS Teams                        | Yes                | 700             | 20      | 25      | 3               | Coming Soon    |                                                  | 7-9          | 15-17 | 4-6 11-13 | 17-19 23-25        | 13-15 27-29 | 12-14             | 1-3    | 26-28  | 17-19  | 7-9    | 13-15 |
| 3                                                                                                                                                                          | A&C : PCSB Permit to Work (PTW) Level 3 - Refresher            | 3     | F2F (NR)   | Kerteh/ KL/ Kota Kinabalu/ Miri | Yes                | 650             | 15      | 25      | 1               | Coming Soon    | <a href="#">Upon Request ( Click to Enquire)</a> |              |       |           |                    |             |                   |        |        |        |        |       |
| 4                                                                                                                                                                          | A&C : PCSB Permit to Work (PTW) Level 3 - Refresher (VILT)     | 3     | VILT       | MS Teams                        | Yes                | 424.53          | 10      | 20      | 1               | Coming Soon    |                                                  |              |       |           | 11<br>(2 sessions) | 1<br>2      | 6<br>(2 sessions) | 3<br>4 | 7<br>8 | 5<br>6 | 2<br>3 |       |
|                                                                                                                                                                            |                                                                |       |            |                                 |                    |                 |         |         |                 |                | 19                                               | 9            |       |           | 12<br>(2 sessions) | 8           | 7<br>(2 sessions) | 10     | 14     | 12     | 9      | 8     |
|                                                                                                                                                                            |                                                                |       |            |                                 |                    |                 |         |         |                 |                | 20                                               | 10           | 8     | 4         |                    |             |                   |        |        |        |        |       |
|                                                                                                                                                                            |                                                                |       |            |                                 |                    |                 |         |         |                 |                | 26                                               | 16           | 9     | 6         | 23                 | 9           | 18                | 11     | 15     | 13     | 10     | 14    |
|                                                                                                                                                                            |                                                                |       |            |                                 |                    |                 |         |         |                 |                | (2 sessions)                                     | (2 sessions) | 15    | 12        |                    | 15          | 17                | 21     | 19     | 16     | 15     |       |
|                                                                                                                                                                            |                                                                |       |            |                                 |                    |                 |         |         |                 |                | 27                                               | 17           | 16    | 13        | 24                 | 16          | 19                | 18     | 22     | 20     | 17     | 21    |
|                                                                                                                                                                            |                                                                |       |            |                                 |                    |                 |         |         |                 |                | (2 sessions)                                     | (2 sessions) | 16    | 13        | 30                 | 16          | 25                | 18     | 22     | 20     | 17     | 21    |
|                                                                                                                                                                            |                                                                |       |            |                                 |                    |                 |         |         |                 |                |                                                  |              |       |           | 31                 | 22          | 26                | 24     | 28     | 26     | 23     | 22    |
|                                                                                                                                                                            |                                                                |       |            |                                 |                    | 23              |         | 25      | 29              | 27             | 24                                               |              |       |           |                    |             |                   |        |        |        |        |       |

## A&C: PECAS – Training Programme

| Programme Leader:<br>Muhamad Faizzudin Bin Ahmad Azhar<br>+609-668 6120<br>+014-512 8724<br><a href="mailto:muhamadfaizzudin.ah@petronas.com.my">muhamadfaizzudin.ah@petronas.com.my</a> |                                           |  | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022                                            |               |                |     |                |              |       |              |              |                |               |              |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|-------------------------------------------------|---------------|----------------|-----|----------------|--------------|-------|--------------|--------------|----------------|---------------|--------------|-----|
|                                                                                                                                                                                          |                                           |  |            |                                                               |                    |                 |         |         |                 |                |                                                 | Jan           | Feb            | Mac | Apr            | May          | June  | July         | Aug          | Sept           | Oct           | Nov          | Dec |
| 1                                                                                                                                                                                        | A&C : e-PECAS Training                    |  | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 850             | 11      | 18      | 1               | Coming Soon    | <a href="#">Upon Request (Click to Enquire)</a> |               |                |     |                |              |       |              |              |                |               |              |     |
| 2                                                                                                                                                                                        | A&C : e-PECAS Training                    |  | F2F (NR)   | Kerteh/<br>Kuantan/KL /Sabah/<br>Sarawak                      | Coming Soon        | 1,490           | 11      | 18      | 1               | Coming Soon    |                                                 |               |                |     |                |              |       |              |              |                |               |              |     |
| 3                                                                                                                                                                                        | A&C : e-PECAS Training (VILT)             |  | VILT       | MS Teams                                                      | Yes                | 900             | 10      | 15      | 1               | Coming Soon    |                                                 |               |                |     |                |              |       |              |              |                |               |              |     |
| 4                                                                                                                                                                                        | A&C : PECAS Training for Candidate        |  | F2F (NR)   | INSTEP*                                                       | Yes                | 1,420           | 12      | 18      | 2               | Coming Soon    |                                                 |               |                |     |                |              |       |              |              |                |               |              |     |
| 5                                                                                                                                                                                        | A&C : PECAS Training for Candidate        |  | F2F (NR)   | Kerteh/<br>Kuantan/KL /Sabah/<br>Sarawak                      | Yes                | 2,480           | 12      | 18      | 2               | Coming Soon    |                                                 |               |                |     |                |              |       |              |              |                |               |              |     |
| 6                                                                                                                                                                                        | A&C : PECAS Training for Candidate (VILT) |  | VILT       | MS Teams                                                      | Yes                | 1,340           | 10      | 15      | 2               | Coming Soon    |                                                 |               |                |     |                |              | 6-7   |              |              |                |               |              |     |
| 7                                                                                                                                                                                        | A&C : PECAS Training                      |  | F2F (NR)   | INSTEP*                                                       | Yes                | 1,520           | 14      | 20      | 2               | Coming Soon    |                                                 |               |                |     |                |              | 27-28 | 8-9<br>17-18 | 7-8<br>13-14 | 10-11<br>19-20 | 9-10<br>23-24 | 7-8<br>14-15 |     |
| 8                                                                                                                                                                                        | A&C : PECAS Training                      |  | F2F (NR)   | Kerteh/<br>Kuantan/KL /Sabah/<br>Sarawak                      | Yes                | 2,530           | 14      | 20      | 2               | Coming Soon    |                                                 |               |                |     |                |              |       |              |              |                |               |              |     |
| 9                                                                                                                                                                                        | A&C : PECAS Training (VILT)               |  | VILT       | MS Teams                                                      | Yes                | 1,560           | 10      | 15      | 2               | Coming Soon    |                                                 | 9-10<br>23-24 | 16-17<br>23-24 |     | 16-17<br>25-26 | 8-9<br>22-23 |       |              |              |                |               |              |     |
| 10                                                                                                                                                                                       | A&C : PECAS Refresher Training            |  | F2F (NR)   | INSTEP*                                                       | Yes                | 640             | 14      | 20      | 1               | Coming Soon    | <a href="#">Upon Request (Click to Enquire)</a> |               |                |     |                |              |       |              |              |                |               |              |     |
| 11                                                                                                                                                                                       | A&C : PECAS Refresher Training            |  | F2F (NR)   | Kerteh/<br>Kuantan/KL /Sabah/<br>Sarawak                      | Yes                | 1,190           | 14      | 20      | 1               | Coming Soon    |                                                 |               |                |     |                |              |       |              |              |                |               |              |     |
| 12                                                                                                                                                                                       | A&C : PECAS Refresher Training (VILT)     |  | VILT       | MS Teams                                                      | Yes                | 900             | 10      | 15      | 1               | Coming Soon    |                                                 |               |                |     |                |              |       |              |              |                |               |              |     |

## A&C: PECAS – Training Programme

| Programme Leader:<br>Muhamad Faizzudin Bin Ahmad Azhar<br>+609-668 6120<br>+014-512 8724<br><a href="mailto:muhamadfaizzudin.ah@petronas.com.my">muhamadfaizzudin.ah@petronas.com.my</a> |                                                                                    | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022                                            |     |       |     |     |      |       |       |      |       |     |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|-------------------------------------------------|-----|-------|-----|-----|------|-------|-------|------|-------|-----|-------|
|                                                                                                                                                                                          |                                                                                    |            |                                                               |                    |                 |         |         |                 |                | Jan                                             | Feb | Mar   | Apr | May | June | July  | Aug   | Sept | Oct   | Nov | Dec   |
| 13                                                                                                                                                                                       | A&C : Competency Programme for PECAS Assessor - CoPA (Briefing + Interview)        | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 2,640           | 4       | 8       | 2               | Coming Soon    |                                                 |     |       |     |     |      | 20-21 |       |      |       |     |       |
| 14                                                                                                                                                                                       | A&C : Competency Programme for PECAS Assessor - CoPA (Briefing + Interview)        | F2F (NR)   | Kerteh/ Kuantan/KL /Sabah/ Sarawak                            | Coming Soon        | 3,880           | 4       | 8       | 2               | Coming Soon    |                                                 |     |       |     |     |      |       | 24-25 |      | 26-27 |     | 21-22 |
| 15                                                                                                                                                                                       | A&C : Competency Programme for PECAS Assessor - CoPA (Briefing + Interview) (VILT) | VILT       | MS Teams                                                      | Yes                | 2,520           |         |         | 2               | Coming Soon    |                                                 |     | 30-31 |     |     |      |       |       |      |       |     |       |
| 16                                                                                                                                                                                       | A&C : Competency Programme for PECAS Assessor - CoPA (Briefing)                    | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 560             | 14      | 20      | 1               | Coming Soon    | <a href="#">Upon Request (Click to Enquire)</a> |     |       |     |     |      |       |       |      |       |     |       |
| 17                                                                                                                                                                                       | A&C : Competency Programme for PECAS Assessor - CoPA (Briefing)                    | F2F (NR)   | Kerteh/ Kuantan/KL /Sabah/ Sarawak                            | Coming Soon        | 930             | 14      | 20      | 1               | Coming Soon    |                                                 |     |       |     |     |      |       |       |      |       |     |       |
| 18                                                                                                                                                                                       | A&C : Competency Programme for PECAS Assessor - CoPA (Interview)                   | F2F (NR)   | INSTEP*                                                       | Coming Soon        | 1,650           | 8       | 8       | 1               | Coming Soon    |                                                 |     |       |     |     |      |       |       |      |       |     |       |
| 19                                                                                                                                                                                       | A&C : Competency Programme for PECAS Assessor - CoPA (Interview)                   | F2F (NR)   | Kerteh/ Kuantan/KL /Sabah/ Sarawak                            | Coming Soon        | 2,440           | 8       | 8       | 1               | Coming Soon    |                                                 |     |       |     |     |      |       |       |      |       |     |       |



## Others : PETRONAS Assurance Delivery Excellence (PADEX)

| Programme Leader:<br>M Zawawi Zani<br>+609-668 6269<br>+6017-258 2880<br><a href="mailto:Zawawi.zani@petronas.c">Zawawi.zani@petronas.c</a> |                                                       | Prog. Type | Venue    | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |               |                        |       |               |                         |                |               |              |              |               |     |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------|----------|--------------------|-----------------|---------|---------|-----------------|----------------|------|---------------|------------------------|-------|---------------|-------------------------|----------------|---------------|--------------|--------------|---------------|-----|
|                                                                                                                                             |                                                       |            |          |                    |                 |         |         |                 |                | Jan  | Feb           | Mar                    | Apr   | May           | June                    | July           | Aug           | Sept         | Oct          | Nov           | Dec |
| 1                                                                                                                                           | PETRONAS Assurance Delivery Excellence (PADEX) (VILT) | VILT       | MS Teams | Yes                | 1,900           | 20      | 30      | 4               | Coming Soon    |      | 7-10<br>21-24 | 7-10<br>21-24<br>28-31 | 11-14 | 9-12<br>23-26 | 13-16<br>20-23<br>27-30 | 18-21<br>25-28 | 8-11<br>22-25 | 5-8<br>19-22 | 3-6<br>17-20 | 7-10<br>21-24 | 5-8 |

### Note:

1. PADEX training enrolment is only based on nomination by HCU/BU/OPU/Asset Assurance Coordinator or Focal. Please refer to Integrated Assurance Unit, IAU portal ([myPETRONAS- https://mypetronas.com/grm/iap-portal/training-calendar](https://mypetronas.com/grm/iap-portal/training-calendar)) for PADEX training enrolment process.

## Others : Root-Cause Analysis (RCA) Certification Programme

| Programme Leader:<br>W M Sabri W Yahya<br>+609-668 6070<br>+6013-948 9411<br><a href="mailto:sabri.yahya@petronas.com.my">sabri.yahya@petronas.com.my</a> |                                                                                                                          | Prog. Type | Venue    | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |       |     |     |       |             |      |         |                |         |     |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------|----------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-------|-----|-----|-------|-------------|------|---------|----------------|---------|-----|-----|
|                                                                                                                                                           |                                                                                                                          |            |          |                    |                 |         |         |                 |                | Jan  | Feb   | Mar | Apr | May   | June        | July | Aug     | Sept           | Oct     | Nov | Dec |
| 1                                                                                                                                                         | Root-cause Analysis (RCA) Certification Programme - Training (VILT)                                                      | VILT       | MS Teams | Coming Soon        | 2,000           | 8       | 12      | 2               | Coming Soon    |      | 7 - 8 |     |     |       |             |      |         |                |         |     |     |
| 2                                                                                                                                                         | Root-cause Analysis (RCA) Certification Programme – Training<br><small>UPDATED DATE</small>                              | F2F (NR)   | KL       | Coming Soon        | 3,000           | 8       | 12      | 3               | Coming Soon    |      |       |     |     | 10-12 |             |      | 23 - 25 |                | 18 - 20 |     |     |
| 3                                                                                                                                                         | Root-cause Analysis (RCA) Certification Programme - Assessment<br><small>UPDATED FEE</small> <small>UPDATED DATE</small> | F2F (NR)   | KL       | Coming Soon        | 3,700           | 1       | 1       | 1               | Coming Soon    |      |       |     |     |       | 7<br>8<br>9 |      |         | 20<br>21<br>22 |         |     |     |

# Others





## Upstream Commercial Academy (UCA)

| Programme Leader:<br>M Hafiz Khairudin<br>+609-668 6102<br>+6017-582 8368<br><a href="mailto:mhafiz.khairudin@petronas.com.my">mhafiz.khairudin@petronas.com.my</a> |                                               |   |          |          |             |       |    |    |                   |             | 2022 |       |       |     |       |       |       |       |       |     |     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---|----------|----------|-------------|-------|----|----|-------------------|-------------|------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-----|-----|
|                                                                                                                                                                     |                                               |   |          |          |             |       |    |    |                   |             | Jan  | Feb   | Mar   | Apr | May   | June  | July  | Aug   | Sept  | Oct | Nov | Dec |
| 1                                                                                                                                                                   | UCA : Upstream Commercial Fundamentals        | 1 | F2F (NR) | KL       | Coming Soon | 1,190 | 10 | 20 | 1                 | Coming Soon |      |       |       |     |       |       | 13    | 3     | 6     |     | 2   |     |
| 2                                                                                                                                                                   | UCA : Upstream Commercial Fundamentals (VILT) | 1 | VILT     | MS Teams | Coming Soon | 590   | 6  | 12 | 2                 | Coming Soon |      | 8-9   |       |     | 24-25 |       |       |       |       |     |     |     |
| 3                                                                                                                                                                   | UCA : Upstream Commercial Core                | 3 | F2F (NR) | KL       | Coming Soon | 6,090 | 6  | 14 | 7 (Incl. Weekend) | Coming Soon |      |       |       |     |       |       |       | 21-27 |       |     |     |     |
| 4                                                                                                                                                                   | UCA : Upstream Commercial Core (VILT)         | 3 | VILT     | MS Teams | Coming Soon | 1,720 | 6  | 8  | 11                | Coming Soon |      | 14-28 |       |     |       | 13-27 |       |       |       |     |     |     |
| 5                                                                                                                                                                   | UCA : Advance Commercial Negotiation          | 3 | F2F (NR) | KL       | Coming Soon | 4,700 | 6  | 10 | 5                 | Coming Soon |      |       |       |     |       |       |       |       | 17-21 |     |     |     |
| 6                                                                                                                                                                   | UCA : Advance Commercial Negotiation (VILT)   | 3 | VILT     | MS Teams | Coming Soon | 1,040 | 6  | 8  | 5                 | Coming Soon |      |       | 21-25 |     |       |       |       |       |       |     |     |     |
| 7                                                                                                                                                                   | UCA : Upstream Commercial Case Studies        | 3 | F2F (NR) | KL       | Coming Soon | 4,210 | 10 | 15 | 2                 | Coming Soon |      |       |       |     |       |       | 16-17 |       |       |     |     |     |



## 3PLAY Onboarding Programme

| Programme Leader:<br>M Nazmi Mizan<br>+609-6686 322<br>+017-9096 972<br><a href="mailto:mnazmi.mizan@petronas.com">mnazmi.mizan@petronas.com</a> |                                                                           | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | HRD Corp Claimable | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | MBOT CPD Hours | 2022 |     |     |     |     |       |      |     |      |       |     |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------|---------------------------------------------------------------|--------------------|-----------------|---------|---------|-----------------|----------------|------|-----|-----|-----|-----|-------|------|-----|------|-------|-----|-----|
|                                                                                                                                                  |                                                                           |            |                                                               |                    |                 |         |         |                 |                | Jan  | Feb | Mar | Apr | May | June  | July | Aug | Sept | Oct   | Nov | Dec |
| 5                                                                                                                                                | 3PLAY Onboarding Programme for Beginners (VILT)                           | VILT       | MS Teams                                                      | Coming Soon        | 1,200           | 10      | 20      | 2               | Coming Soon    |      |     |     |     |     | 21-22 |      |     |      |       |     |     |
| 6                                                                                                                                                | 3PLAY Onboarding Programme for Beginners OFWP & MFWP Practitioners (VILT) | VILT       | MS Teams                                                      | Coming Soon        | 1,800           | 10      | 20      | 4               | Coming Soon    |      |     |     |     |     |       |      |     |      | 17-20 |     |     |

# Awards & Recognitions



# Accreditations & Certifications



# Contact Us

*Scan or click this  
QR code for virtual  
tour*



*Scan or click this  
QR code for website*



**Accelerate your competency development with INSTEP**

Upskill yourself through our wholesome blended learning solutions.  
Visit our websites and social media for latest updates



INSTEP



INSTEP MY



www.instep.my



Instep



instep.my