

# Rain or shine.. We're here for you!

Check out the list of face-to-face programmes and stay tuned for our new learning calendar!

SKG 09  
Geoscience

Programme Leader: Mohamad Noor Solehin Bin Sulaiman  
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Reservoir Mapping and Hydrocarbon Resource Assessment & Risk Analysis, L3  
Sedimentology, L3  
Seismic and Sequence Stratigraphy, L3

SKG 10  
Petroleum  
Engineering

Programme Leader: Mohamad Muaz Bin Abdul Rasid  
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Advanced App. Of Economic Modeling  
Advanced ESP and PCP Design & Operations  
Advanced Gas Lift & Field Modelling  
Advanced Hydraulic Fracturing  
Advanced Petrophysics  
Advanced Recovery Process  
Advanced Scale & Corrosion Management  
Cased Hole Log Interpretation  
Complex Lithology Interpretation  
E&P Core Programme  
EOR  
Fluid Sampling  
Formation Damage & Matrix Treatment Technology  
Fracture Reservoir  
Fundamental of Petrophysics  
Gas Reservoir Engineering  
LWD Principles & Application  
Petroleum Contract  
Petroleum Fluid Analysis  
Practices of Petroleum Economics I  
Practices of Reservoir Engineering  
Practices of Reservoir Engineering (For SKG16.2)  
Production Analysis in Flow System  
Production Chemistry  
Production Enhancement II  
Production Geochemistry  
RE for Non-RE  
Reservoir Characterisation & Simulation  
Reservoir Management & Surveillance  
Risk and Uncertainty in Petroleum Valuation  
Rock Properties  
Sand Management & Control  
Water Injection Management  
Well Completion Design I  
Well Completion Design II

SKG  
(Skill  
Group)

# Rain or shine.. We're here for you!

SKG 12  
Mechanical  
Engineering

Programme Leader: M Nazmi Mizan  
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SKG  
(Skill  
Group)

12.1

Condition Monitoring of Rotating Equipment, L2  
DOMI of Compressors & Blowers, L2  
DOMI of Gas Turbines, L2  
DOMI of ICE, Steam Turbines and Turbo Expander, L2  
DOMI of Pumps, L2  
Driven Equipment Workshop, L3  
Driver Equipment Workshop, L3  
HSE MS & MCF  
Intro of New Technology; Subsea & New Equipment Design, L3  
Machinery Control, Monitoring & Protection, L2  
Machinery Vibration Analysis, L2  
Operational Performance, L2

12.2

API 510 Pressure Vessel Inspection  
API 570 Piping Inspection  
API 653 Tank Inspection, Repair, Alteration & Construction  
ASME I Power Boiler  
ASME VIII Div.1  
ASME VIII Div.2  
Asset Life Assessment, L3  
B31.3 Process Piping  
Basic Design & Fabrication of Static (Unfired), L2  
Boiler and Steam Technology, L3  
Detail Engineering of Piping System  
DOMI of Heat Exchanger, L2  
DOMI of Piping System and Valves, L2  
DOMI of Static (Fired) Equipment, L2  
DOMI of Static Equipment, L1  
DOMI of Valves, L2  
Introduction to Piping System, L1  
Lifting Equipment, L2  
Mechanical Equipment Maintenance, L2  
Stress and Thermal Analysis, L3

12.3

Asset Life Cycle Cost, L3  
Benchmarking, L2  
Data Acquisition, Validation & Decision Analysis, L2  
Dependability, L2  
Equipment Reliability Strategy Part 1, L2  
Equipment Reliability Strategy Part 2, L2  
Predictive Maintenance Technique Part 1, L2  
Predictive Maintenance Technique Part 2, L2  
Reliability and Maintainability Engineering Part 1, L2  
Reliability and Maintainability Engineering Part 2, L2  
Root Cause Failure Analysis, L2

12.5

Introduction to Subsea Engineering, L1  
Subsea Manifold and Piping System, L2

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## SKG 13 Electrical Engineering

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Condition Monitoring and Predictive Analysis, L1&2  
Distribution Equipment, L1  
Distribution Equipment, L2  
Electric Motor and Drive, L1  
Electric Motor and Drive, L2  
Electrical Engineering Design & ELSOR, L1&2  
Electrical Network Automation (ENA), L1&2  
Electrical Safety and Regulations, L1&2  
EMC, LPS and Earthing, L1  
Ex Equipment, L1  
Ex Equipment, L2  
Generating Equipment & System, L1  
Generating Equipment & System, L2  
Green Energy, L1&2  
Protection Device and System, L1  
Protection Device and System, L2  
Switch Gear and Motor Control Centre, L2  
Uninterruptible Power Supply System, L1&2

## SKG 14 Instrumentation & Control

Programme Leader: M Nazmi Mizan  
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IC1.2 Liquid and Gas Metering, L1&2  
IC1.2 Liquid and Gas Metering, L3  
IC1.3 Quality Measurement, L3  
IC2 Control Theory and Application, L3  
IC3 Instrument Engineering Design, L3  
IC4 Process Computer System, L3  
IC5 Instrumented Safeguarding System, L3  
IC6 Control Valve, L1&2

## SKG 15 Material, Corrosion & Inspection Engineering

Programme Leader: Muhammad Shamil Bin Zulkipli  
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Corrosion Control & Mitigation, L2- part 1 Painting & Coating  
Corrosion Control and Mitigation, L3  
Corrosion Engineering and Management, L2  
Corrosion Testing & Monitoring, L2  
Fitness for Service, L3  
Metallurgy & Materials Selection, L2  
Non-Destructive Testing, L2  
Risk Based Inspection Assessment & Auditing, L3  
Welding Technology, L2

SKG  
(Skill  
Group)

# Rain or shine.. We're here for you!

SKG 16  
Process  
Operations

Programme Leader: M Hafiz Khairudin  
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SKG  
(Skill  
Group)

16.1

Gas Lift Optimisation  
Gas Lift Optimisation  
Plant Cost Management, L2  
Plant Cost Management, L3  
Plant Start Up & Shutdown  
Plant Start Up & Shutdown  
Process Schematic (known as P&ID)  
SSDP Supervisory and Leadership  
Well Operations & Maintenance  
Well Operations & Maintenance

16.2

Feedstock Evaluation, L2  
HC Accounting and Allocation, L2 (Downstream)  
HC Accounting and Allocation, L2 (Upstream)  
HC Accounting and Allocation, L2 (Upstream)  
Marketing for Production Planning, L3  
Production Operations, L2  
Ship & Shore Measurement, L3  
Surface Production Facilities - Oil/Water & Gas Handling, L2

16.3

Design of Water System, L3  
Distillation Design & Operations, L3  
Distillation Design & Operations, L4  
Plant Performance Monitoring & Optimization, L2  
Process Risk Assessment & Tools, L3  
ORA & Consequence Modelling, L3  
Safety in Process Design & Operations, L2

16.4

iCON Basic Training, L2  
iCON Basic Training, L3  
Instrumentation for Process Control, L2  
Introduction to Multivariable Predictive Control, L2  
MPC Implementation, L2  
Process Control Theory and Application, L2  
Regression and First Principle Inference, L2

16.5

PVT & EOS  
Upstream Induction and Grounding Program

16.6

Advanced Atomic Absorption, L3  
Advanced Gas Chromatography, L3  
Advanced XRF Training, L3  
Analytical Equipment: Chromatography and Spectroscopy Part 1 & 2, L2  
Statistics, Calibration and Method Validation, L2

# Rain or shine.. We're here for you!

## SKG 25 Drilling

Programme Leader: Mohamad Muaz Bin Abdul Rasid  
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Advance Drilling Fluid  
Advanced Cementing  
Advanced Well Completion  
Casing While Drilling (CWD)  
Coiled Tubing Operation  
Deepwater Drilling  
Drilling for None Driller  
Electric Line Operation  
Fundamental of Drilling Operation  
Manage Pressure Drilling (MPD)  
Sand Management & Control  
Slickline Operation  
SMART DOMC (REAL TIME DRILLING)  
Stuck Pipe Prevention & Fishing  
Well Completion  
Well Engineering  
Well Engineering Software Application  
Wellhead Preventive Maintenance

SKG  
(Skill  
Group)

## SKG OTHERS

Programme Leader: Mohamad Noor Solehin Bin Sulaiman  
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Upstream Commercial Core Program  
Upstream Commercial Case Studies

# Rain or shine.. We're here for you!

## NET E & P Exploration & Production

Programme Leader: Ahmad Yusuf Bin Hussain  
Tel.: +609-668 6226 / +6013-239 0864  
Email: [yusuf.hussain@petronas.com.my](mailto:yusuf.hussain@petronas.com.my)

Pipe, Valve, Fitting and PNID  
Produced Water Treatment System On The Platform  
Water Injection System  
Wellhead and Production Header System

## NET P & A Process & Analytical

Programme Leader: Ahmad Yusuf Bin Hussain  
Tel.: +609-668 6226 / +6013-239 0864  
Email: [yusuf.hussain@petronas.com.my](mailto:yusuf.hussain@petronas.com.my)

Calibration Requirements for Lab Equipment  
Compressor, Fan and Blowers: Operation Care  
Cooling Water  
Distillation Principles (CBT and Pilot Plant)  
Fundamental of Analysis and HC Chemistry  
Fundamentals Process Control System Engineering  
Furnace  
Gas Turbine Operation and Care  
Heat Exchangers: Operation and Care  
Inventory Record  
Maintenance and Troubleshooting of GC  
Physical and Biological Techniques  
Piping and Valves  
Plant Air Systems  
Pump Operation and Care  
Reactor Operation and Care  
Separation Process  
Steam Turbine: Operation and Care  
Tankage and Storage  
Terminal Operation  
Titration and Electrochemistry  
Utility: Flare, LDS & Fuel Gas System  
Water and Waste Water Treatment System

## NET (Net Up- grading)

## NET MECHANICAL

Programme Leader: Muhammad Shamil Bin Zulkipli  
Tel.: +609-668 6045 / +6013-278 9357  
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Advance NDT method: Eddy Current  
Basic Principles of Rotating Equipment  
Bearing Technology and Maintenance  
Centrifugal Gas Compressor  
Corrosion Control and Monitoring

# Rain or shine.. We're here for you!

## NET MECHANICAL

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Tel.: +609-668 6045 / +6013-278 9357  
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Diesel engine: Operation & Maintenance  
Equipment Balancing  
Gas turbine: Operation and Maintenance  
Liquid Penetrant Testing (PT)  
Lubrication and Filtration  
Magnetic Particle Testing (MT)  
Mechanical Seal Maintenance and Troubleshooting  
Painting and Coating Inspection  
Pneumatic Systems: Operation, Troubleshooting & Maintenance  
Positive Displacement Pump  
Precision Measurement Tools and Bench Fittings  
Precision Practical Alignment  
Pump Troubleshooting  
Quality Control  
Quality Control of Rotating Equipment

## NET CIVIL

Programme Leader: Muhammad Shamil Bin Zulkipli  
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Painting & Heat Protection Technology

## NET ELECTRICAL

Programme Leader: Muhammad Badiuzzaman Bin Rusli  
Tel.: +609-668 6289 / +6019-341 7612  
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Condition-Based Monitoring of High Voltage Switchgears and Transformers  
Electrical Protection System  
Fire Alarm, Public Address & General Alarm System  
Generator Operation and Control System  
Heating, Ventilation & Airconditioning System (HVAC)  
High Voltage System Switching  
Maintenance and Troubleshooting of AC & DC UPS System  
Motor Control System  
Motor Operated Valve (MOV)  
Operation and Maintenance of Low Voltage Switchboard  
Portable Electrical Equipment and Temporary Installation (PETI)  
Power Electronics  
Power Management  
Precommissioning and Commissioning of Electrical Equipment  
Selection, Installation and Inspection of Ex Equipment  
Soft Starter & Variable Speed Drive System (VSDD)  
TTS Electrical (PCPS)

NET  
(Net Up-  
grading)

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## NET INSTRUMENTATION

Programme Leader: M Nazmi Mizan  
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Email: [mnazmi.mizan@petronas.com.my](mailto:mnazmi.mizan@petronas.com.my)

Control Valve I, L1  
Instrumented Safeguarding System I, L1  
Process Control Theory and Application, L1  
Process Measurement I, L1  
Control Valve II, L2  
Gas Chromatograph, L2  
Gas Turbine & Control System Solar Turbotronic I, L2  
GE Heavy Duty Gas Turbine, L2  
Instrumented Safeguarding System II, L2  
Liquid and Gas Metering, L2  
PID Tuning, L2  
Process Measurement II, L2  
Quality Measuring Instrument, L2  
Vibration Monitoring System, L2  
ControlLogix System Maintenance & Troubleshooting, L3  
Gas Detection System, L3  
Honeywell EPKS Engineering & Maintenance, L3  
Instrument Installation and Maintenance, L3  
Introduction to the DCS Operation Experion PKS For Process Operator, L3  
Introduction to the DCS Operation Yokogawa CS3000 for Process Operator, L3  
Programmable Logic Controller Allen Bradley CLX5000, L3  
Safety PLC - Tricon TMR, L3  
Solar Turbine & Control System II, L3

## NET GENERAL STUDIES

Programme Leader: Muhammad Badiuzzaman Bin Rusli  
Tel.: +609-668 6289 / +6019-341 7612  
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English Speaking Empowerment for NET  
English Writing Empowerment for NET

NET  
(Net Up-  
grading)



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## A & C E & P Special Project

Programme Leader: Hasif Sheikh Ali  
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Advanced Pigging Operation Certification Scheme (APOCS)  
Upstream Panel Operator Certification Programme (UPOCP)

## A & C P & A Panel Operator Training and Certification Programme

Programme Leader: Siti Suhaili Shuib  
Tel.: +609-668 6150 / +6013-586 8208  
Email: [sitisuhaili.shuib@petronas.com.my](mailto:sitisuhaili.shuib@petronas.com.my)

POTCP 01 : Distributed Control System  
POTCP 02 : Process Control

## A & C P & A Process & Analytical

Programme Leader: Siti Suhaili Shuib  
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CePIETSO-BP (Certified Environmental Professional in the Operation of Industrial Effluent Treatment Systems- Biological Process)  
Vessel Familiarisation & Shipshore Safety Checklist

## A & C M & I Mechanical & Inspection

Programme Leader: Muhammad Shamil Bin Zulkipli  
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## OSR Inspector

Atmospheric Storage Tank  
Fired Pressure Vessel Inspection  
Hoisting & Lifting Equipment  
HSE MS  
Non Destructive Testing  
Offshore Self Regulation (OSR) Inspector  
OSR Competency Assessment  
OSR MS  
Piping Inspection  
Risk Based Inspection  
Unfired Pressure Vessel Inspection  
Welding Technology

A&C  
(Assessment  
&  
Certification)

# Rain or shine.. We're here for you!

A & C M & I  
Mechanical &  
Inspection

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PRBI

PETRONAS Risk Based Inspection (PRBI) User Certification Programme

PESITAS

ICE Driver Grade 2 & 1  
ICE Engineer Grade 2 & 1  
Preparatory for ICE Engineer Grade 2 & 1 (Oral)  
Preparatory for ICE Engineer Grade 2 & 1 (Paper B)  
Preparatory for Steam Boiler Engineer Grade 2 & 1 (Oral)  
Preparatory for Steam Boiler Engineer Grade 2 & 1 (Paper B)  
Steam Boiler Driver Grade 2 & 1

PMS

Plant Management System (PMS)- previously known as PETRONAS Pengerang Integrated Complex Osh Administration Transformation (PICOAT)

A&C  
(Assessment  
&  
Certification)

A & C  
ELECTRICAL

Programme Leader: Muhamad Faizzudin Bin Ahmad Azhar  
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IECEX Unit Ex 001 & 003  
IECEX Unit Ex 001 & 009  
IECEX Unit Ex 001, 007 & 008  
IECEX Unit Ex 001,003, 007 & 008  
IECEX Unit Ex 001,004, 007 & 008

A & C  
INSTRUMENTATION

Programme Leader: Muhamad Faizzudin Bin Ahmad Azhar  
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Certified Personnel for Metering validation and Calibration Competency Programme  
Instrument Fitter

# Rain or shine.. We're here for you!

## A & C HSE Health, Safety & Environment

A&C  
(Assessment  
&  
Certification)

### CePSWaM

Programme Leader: Siti Suhaili Shuib  
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Email: [sitisuhaili.shuib@petronas.com.my](mailto:sitisuhaili.shuib@petronas.com.my)

CePSWaM (Certified Environmental Professional in Scheduled Waste Management)

### AESP

Programme Leader: Hasif Sheikh Ali  
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AESP (Authorised Entrant & Standby Person)

### PTW

Programme Leader: Nurul Nadia Binti Mohamad Sabry  
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PCSB Permit to Work Competency L2- New Candidate  
PCSB Permit to Work Competency L3- New Candidate