

# INSTEP Learning Calendar 2021

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**Bringing Experiential**

**Learning to You**

**for Off-the-Shelf**





**INSTEP**<sup>®</sup>

INSTITUT TEKNOLOGI PETROLEUM PETRONAS

# 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.

*"Experiencing is Enriching"*



# INSTEP is now MBOT

## Approved Training Provider

*Earn your CPD hours today..*

INSTEP has been approved by Malaysia Board of Technologists (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 Technicians only.

*"Experiencing is Enriching"*



# Virtual Instructor-Led Training (VILT)

*The new norm of learning..*

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

*"Experiencing is Enriching"*



# Experiential Learning

*Apart from VILT..*

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

*"Experiencing is Enriching"*



# Innovative Technology Testing and Deployment

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

It 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.

*"Experiencing is Enriching"*





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## Professional Development Programme (PDP)

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- 23 OTS PDP : Health, Safety & Environment (HSE) Programme
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## Assessment & Certification (A&C)

- 28 OTS A&C : Exploration & Production (E&P)- Special Project
- 29 OTS A&C : Process & Analytical- CePIETSO BP
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- 31 OTS A&C : Electrical- IECEX Competency Training Programme & Assessment
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- 33 OTS A&C : Instrumentation
- 34 OTS A&C : Health, Safety & Environment (HSE)- AESP
- 35 OTS A&C : Health, Safety & Environment (HSE)- CePSWaM
- 36 OTS A&C : Health, Safety & Environment (HSE)- PCSB Permit to Work (PTW) Competency Level 2 **NEW DATE**

**Course**

**Progression Map**

*"Experiencing is Enriching"*





# Course Progression Map: Engineer

| Suggested years of experience | Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                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|                               | Exploration & Production                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Process & Analytical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Static                                                                                                                                                                                                                                                                                                                                                | Inspection                                                                                                                                                                                   | Rotating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Electrical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                         |
| Basic<br>1-3 years            | <ul style="list-style-type: none"> <li>✓ P&amp;ID and Schematic Diagram</li> <li>✓ Well Operation &amp; Maintenance</li> <li>✓ Heat Exchanger Operation &amp; Maintenance</li> <li>✓ Hydrocarbon Treatment System</li> <li>✓ Basic Petroleum Prod, Transportation &amp; Processes</li> <li>✓ Oil and Gas Terminal Operation</li> <li>✓ Separator Operation</li> <li>✓ Gas Lift Operations and Optimisation</li> <li>✓ Wellhead and Production Header System</li> <li>✓ Gas Compression and Compressor Operation &amp; Control</li> <li>✓ Gas Dehydration and Regeneration System</li> <li>✓ Petroleum Liquid and Gas Properties</li> <li>✓ Crude Separation and Crude/Condensate Stabilisation</li> <li>✓ Produced Water Treatment System on the Platform</li> <li>✓ Water Injection System</li> <li>✓ Pipe, Valve, Fitting and P&amp;ID</li> <li>✓ Watermaker Operation &amp; Maintenance</li> </ul> | <ul style="list-style-type: none"> <li>✓ Tankage and Storage</li> <li>✓ Piping and Valves</li> <li>✓ Downstream Plant Familiarisation</li> <li>✓ Plant Start-up &amp; Shutdown</li> <li>✓ P&amp;ID and Schematic Diagram</li> <li>✓ Distillation Principles (Pilot Plant and CBT)</li> <li>✓ Water and Wastewater Treatment System</li> <li>✓ Pump Operation and Care</li> <li>✓ Heat Exchangers: Operation and Care</li> <li>✓ Plant Monitoring &amp; Optimisation</li> <li>✓ Piping and Valves</li> <li>✓ Furnace</li> <li>✓ Tankage and Storage</li> <li>✓ Plant Process Troubleshooting (L2)</li> <li>✓ Compressor, Fan and Blowers: Operation and Care</li> <li>✓ Heat Exchangers: Operation and Care</li> <li>✓ Water and Wastewater Treatment System</li> <li>✓ Distillation Principles (Pilot Plant and CBT)</li> <li>✓ Tankage and Storage</li> <li>✓ Piping and Valves</li> <li>✓ Furnace</li> <li>✓ Gas Turbine: Operation and Care</li> <li>✓ Heat Exchangers: Operation and Care</li> <li>✓ Water and Wastewater Treatment System</li> <li>✓ Distillation Principles (Pilot Plant and CBT)</li> <li>✓ POTCP 01 -Distributed Control System (DCS)</li> <li>✓ POTCP 02 -Process Control</li> <li>✓ POTCP 03 -Process Troubleshooting</li> <li>✓ POTCP 04 -Plant Operation Practice</li> <li>✓ POTCP 05 -Process Safety Practice</li> </ul> | <ul style="list-style-type: none"> <li>✓ Introduction to Piping System **</li> <li>✓ DOMI Static Equipment ** (cover all static equipment)</li> <li>✓ Pressure Relieving Devices</li> <li>✓ Lifting and Rigging **</li> <li>✓ Valves and Safety Valves Maintenance &amp; Repair</li> <li>✓ Tank Maintenance**</li> <li>✓ Flange Management</li> </ul> | <ul style="list-style-type: none"> <li>✓ Integrated Module ** (general inspection)</li> <li>✓ Welding Technology</li> <li>✓ Quality Control</li> <li>✓ Pressure Relieving Devices</li> </ul> | <ul style="list-style-type: none"> <li>✓ DOMI Pump</li> <li>✓ DOMI Gas Turbine</li> <li>✓ DOMI Compressor &amp; Blowers</li> <li>✓ Condition Monitoring Equipment</li> <li>✓ DOMI Rotating Equipment</li> <li>✓ Single Stage Centrifugal Pump</li> <li>✓ Alignment Principles &amp; Technology</li> <li>✓ Mechanical Seal Maintenance and Troubleshooting</li> <li>✓ Reciprocating Compressor</li> <li>✓ Positive Displacement Pump</li> <li>✓ Precision Practical Alignment **</li> </ul> | <ul style="list-style-type: none"> <li>✓ Protection Relay &amp; Coordination</li> <li>✓ Generating Equipment &amp; System</li> <li>✓ Basic Application of Ex Equipment in Hazardous Area</li> <li>✓ High Voltage Switching and Generator Synchronising Practice</li> <li>✓ Portable Equipment and Temporary Installation</li> <li>✓ Condition Monitoring and Maintenance of HV Switchgears and Transformers</li> <li>✓ Maintenance and Troubleshooting of LV Motors (AC/DC)</li> <li>✓ Generator Operation &amp; Control System</li> <li>✓ Low Voltage Switchboard &amp; Switchgear Equipment Operation &amp; Maintenance</li> <li>✓ Maintenance and Troubleshooting of AC &amp; DC Ups System</li> <li>✓ Testing, Pre-Commissioning and Commissioning of Electrical Equipment</li> <li>✓ HV System Switching</li> <li>✓ Electrical Protection System</li> <li>✓ IQ Motor Operated Valve (MOV)</li> <li>✓ Selection, Installation and Inspection of Ex Equipment in Hazardous Area</li> </ul> | <ul style="list-style-type: none"> <li>✓ Fundamental of Integrated Control Safety System (ICSS)</li> <li>✓ Process Measurement I</li> <li>✓ Control Valve</li> <li>✓ Quality Measuring Instrument</li> <li>✓ Vibration Monitoring System</li> <li>✓ Gas Detection System</li> <li>✓ Introduction to the Distributed Control System (DCS) Operation - ExperionPKS for Process Operator</li> <li>✓ Introduction to the Distributed Control System (DCS) Operation - Yokogawa CS 3000 for Process Operator</li> <li>✓ Plant Process Control &amp; DCS System Operation</li> <li>✓ Process Control Theory and Application</li> <li>✓ Instrumented Safeguarding System</li> <li>✓ Liquid and Gas Metering</li> <li>✓ Safety PLC-Tricon TMR</li> <li>✓ Programmable Logic Controller - Allen Bradley CLX5000</li> <li>✓ PID Tuning</li> <li>✓ Honeywell EPKS Engineering &amp; Maintenance</li> </ul> |
|                               | <ul style="list-style-type: none"> <li>✓ International Well Control Forum (IWCF) Well Control, L2</li> <li>✓ International Well Control Forum (IWCF) Well Control, L4</li> <li>✓ International Association of Drilling Contractor (IADC) WellSHARP, L4</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>✓ ASNT UTTM</li> </ul>                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>✓ IECEX Unit Ex001 Competency Training Programme</li> <li>✓ A0 Chargeman</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <ul style="list-style-type: none"> <li>✓ Certified Personnel for Metering Validation &amp; Calibration Competency Programme</li> <li>✓ Instrument Fitter</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Intermediate<br>4-8 years     | <ul style="list-style-type: none"> <li>✓ Plant Monitoring &amp; Optimisation</li> <li>✓ Plant Process Troubleshooting</li> <li>✓ Fundamental of Drilling Operation L2</li> <li>✓ Wellhead Preventive Maintenance L2</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>✓ DOMI of Piping System &amp; Valve</li> <li>✓ DOMI of Static (Fire) - boiler fire equipment **</li> <li>✓ Welding Technology</li> <li>✓ Non-Destructive Testing</li> <li>✓ Flange Management</li> </ul>                                                                                                       | <ul style="list-style-type: none"> <li>✓ Corrosion Control and Monitoring</li> <li>✓ Unfired Pressure Vessel Inspection</li> <li>✓ Welding Inspection</li> </ul>                             | <ul style="list-style-type: none"> <li>✓ Reciprocating Compressor Level 2</li> <li>✓ Positive Displacement Pump</li> <li>✓ Diesel Engine : Operation &amp; Maintenance</li> <li>✓ Gas Turbine Operation &amp; Maintenance</li> <li>✓ Pump Troubleshooting</li> </ul>                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>✓ A4 Chargeman</li> <li>✓ B0 Chargeman</li> <li>✓ Low Voltage Overhead Lines</li> <li>✓ Low Voltage Generator and Synchronising</li> <li>✓ IECEX Unit Ex001 &amp; Ex003 Competency Training Programme</li> <li>✓ IECEX Unit Ex007/008 Competency Training Programme</li> <li>✓ IECEX Unit Ex001 &amp; Ex009 Competency Training Programme</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Advanced<br>≥ 8 years         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>✓ OSR MS</li> <li>✓ HSE MS</li> <li>✓ Fired Pressure Vessel Inspection</li> <li>✓ Piping Inspection</li> <li>✓ Risk Based Inspection</li> <li>✓ Atmospheric Storage Tank (Awareness)</li> </ul>                                                                                                                | <ul style="list-style-type: none"> <li>✓ Hoisting &amp; Lifting Equipment</li> <li>✓ Non-Destructive Testing</li> <li>✓ Welding Technology</li> <li>✓ OSR Competency Assessment</li> </ul>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>✓ High Voltage Generator and Synchronising</li> <li>✓ High Voltage Overhead Lines</li> <li>✓ B4 Chargeman</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

Legend:

★★ Programme is available upon request

Professional Development Programme (PDP)

Assessment & Certification Programme (A&C)



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# Course Progression Map: Engineer

| All Levels | Engineer                                                                                                                                                                                                |                                                                                                                                 |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Health, Safety & Environment                                                                                                                                                                            |                                                                                                                                 |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                       |
|            | Upstream Carigali Requirement                                                                                                                                                                           | Legal                                                                                                                           | Oil & Gas                                                                                                                  | Safety                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Environment                                                                                                                                                                                                                                                                                           |
|            | <ul style="list-style-type: none"> <li>✓ PCSB PTW Level 2 Certification Programme</li> <li>✓ PCSB PTW Level 3 Certification Programme</li> </ul>                                                        | <ul style="list-style-type: none"> <li>✓ Safe Handling of Chemicals (SHOC)</li> <li>✓ Hearing Conservation Awareness</li> </ul> | <ul style="list-style-type: none"> <li>✓ RA Tools Training (BowTie, HAZID, HAZOP, P-HAZOP and PASR Application)</li> </ul> | <ul style="list-style-type: none"> <li>✓ AGT for Non-Confined Space</li> <li>✓ Basic First Aid (Knowledge Level)</li> <li>✓ Job Hazard Analysis (JHA)</li> <li>✓ Mercury Awareness</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>✓ BASEL Convention</li> <li>✓ Environmental Management Awareness</li> <li>✓ CePSWaM Field Training Report Preparation Workshop (FTR) _KL</li> <li>✓ CePSWaM Field Training Report Preparation Workshop (FTR)</li> <li>✓ Handling of Scheduled Waste</li> </ul> |
|            | Emergency & Crisis                                                                                                                                                                                      | Process Safety Management                                                                                                       | Fire                                                                                                                       | General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                       |
|            | <ul style="list-style-type: none"> <li>✓ Chemical Spill Response and Clean-up</li> <li>✓ Emergency Response Team (ERT)</li> <li>✓ Incident Investigation</li> <li>✓ On-Scene Commander (OSC)</li> </ul> | <ul style="list-style-type: none"> <li>✓ Management of Change</li> <li>✓ Process Safety Awareness</li> </ul>                    | <ul style="list-style-type: none"> <li>✓ Basic Fire Fighting</li> </ul>                                                    | <ul style="list-style-type: none"> <li>✓ Office Ergonomics</li> <li>✓ Hydrogen Sulfide (H2S) Awareness</li> <li>✓ Emergency Management Programme (EMP)</li> <li>✓ Permit to Work Awareness</li> <li>✓ Hazardous Material (HAZMAT)</li> <li>✓ Personal Protective Equipment (PPE)</li> <li>✓ Working at Height</li> <li>✓ Working at Height &amp; Rescue</li> <li>✓ Asbestos Awareness</li> <li>✓ Energy Isolation</li> <li>✓ Hazard and Effect Management Process (HEMP)</li> <li>✓ Actively Caring in Safety</li> <li>✓ Benzene Awareness</li> <li>✓ Handling of Stress at the Workplace</li> <li>✓ Heat Stress Awareness</li> <li>✓ Human Factors</li> <li>✓ Indoor Air Quality Awareness</li> <li>✓ Manual Handling Awareness</li> </ul> |                                                                                                                                                                                                                                                                                                       |

## Legend:

★★ Programme is available upon request

Professional Development Programme (PDP)

Assessment & Certification Programme (A&C)



# Course Progression Map: Technician

| Suggested years of experience | Technician                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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|                               | Operations                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Maintenance                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                               | Exploration & Production                                                                                                                                                                                                                                                                                                                                                                        | Process & Analytical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mechanical & Inspection                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                     | Electrical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Instrumentation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Static                                                                                                                                                                                                                                                                                                                   | Inspection                                                                                                                                                                                   | Rotating                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Basic<br>1-3 years            | <ul style="list-style-type: none"> <li>✓ Plant Process Troubleshooting</li> <li>✓ Plant Monitoring &amp; Optimisation</li> <li>✓ P&amp;ID and Schematic Diagram</li> </ul>                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>✓ Tankage and Storage</li> <li>✓ Piping and Valves</li> <li>✓ Downstream Plant Familiarisation</li> <li>✓ Plant Start-up &amp; Shutdown</li> <li>✓ P&amp;ID and Schematic Diagram</li> <li>✓ Distillation Principles (Pilot Plant and CBT)</li> <li>✓ Water and Wastewater Treatment System</li> <li>✓ Pump Operation and Care</li> <li>✓ Heat Exchangers: Operation and Care</li> </ul>                                                                                                                                     | <ul style="list-style-type: none"> <li>✓ Introduction to Piping System **</li> <li>✓ DOMI Static Equipment ** (cover all static equipment)</li> <li>✓ Pressure Relieving Devices</li> <li>✓ Lifting and Rigging **</li> <li>✓ Valves and Safety Valves Maintenance &amp; Repair</li> <li>✓ Tank Maintenance**</li> </ul> | <ul style="list-style-type: none"> <li>✓ Integrated Module ** (general inspection)</li> <li>✓ Welding Technology</li> <li>✓ Quality Control</li> <li>✓ Pressure Relieving Devices</li> </ul> | <ul style="list-style-type: none"> <li>✓ DOMI Pump</li> <li>✓ DOMI Gas Turbine</li> <li>✓ DOMI Compressor &amp; Blowers</li> <li>✓ Condition Monitoring Equipment</li> <li>✓ DOMI Rotating Equipment</li> <li>✓ Single Stage Centrifugal Pump</li> <li>✓ Alignment Principles &amp; Technology</li> <li>✓ Reciprocating Compressor</li> <li>✓ Positive Displacement Pump</li> </ul> | <ul style="list-style-type: none"> <li>✓ Low Voltage Switchboard &amp; Switchgear Equipment Operation &amp; Maintenance</li> <li>✓ Maintenance and Troubleshooting of LV Motors (AC/DC)</li> <li>✓ Generator Operation &amp; Control System</li> <li>✓ Portable Equipment and Temporary Installation</li> <li>✓ Protection Relay &amp; Coordination</li> <li>✓ Generating Equipment &amp; System</li> <li>✓ Basic Application of Ex Equipment in Hazardous Area</li> </ul>                                                   | <ul style="list-style-type: none"> <li>✓ Fundamental of Integrated Control Safety System (ICSS)</li> <li>✓ Process Measurement I</li> <li>✓ Control Valve</li> <li>✓ Quality Measuring Instrument</li> <li>✓ Vibration Monitoring System</li> <li>✓ Gas Detection System</li> <li>✓ Introduction to the Distributed Control System (DCS) Operation - ExperionPKS for Process Operator</li> <li>✓ Introduction to the Distributed Control System (DCS) Operation - Yokogawa CS 3000 for Process Operator</li> </ul> |
| Intermediate<br>4-8 years     | <ul style="list-style-type: none"> <li>✓ Produced Water Treatment System on the Platform</li> <li>✓ Crude Separation and Crude/Condensate Stabilisation</li> <li>✓ Gas Dehydration and Regeneration System</li> <li>✓ Oil and Gas Terminal Operation</li> <li>✓ Hydrocarbon Treatment System</li> <li>✓ Plant Process Troubleshooting</li> <li>✓ Plant Monitoring &amp; Optimisation</li> </ul> | <ul style="list-style-type: none"> <li>✓ Plant Monitoring &amp; Optimisation</li> <li>✓ Piping and Valves</li> <li>✓ Furnace</li> <li>✓ Tankage and Storage</li> <li>✓ Plant Process Troubleshooting (L2)</li> <li>✓ Compressor, Fan and Blowers: Operation and Care</li> <li>✓ Heat Exchangers: Operation and Care</li> <li>✓ Water and Wastewater Treatment System</li> <li>✓ Distillation Principles (Pilot Plant and CBT)</li> </ul>                                                                                                                            | <ul style="list-style-type: none"> <li>✓ DOMI of Piping System &amp; Valve</li> <li>✓ DOMI of Static (Fire) - boiler fire equipment **</li> <li>✓ Welding Technology</li> <li>✓ Non-Destructive Testing</li> </ul>                                                                                                       | <ul style="list-style-type: none"> <li>✓ Unfired Pressure Vessel Inspection</li> <li>✓ Welding Inspection</li> </ul>                                                                         | <ul style="list-style-type: none"> <li>✓ Precision Practical Alignment **</li> <li>✓ Reciprocating Compressor Level 2</li> <li>✓ Positive Displacement Pump</li> <li>✓ Diesel Engine : Operation &amp; Maintenance</li> <li>✓ Gas Turbine Operation &amp; Maintenance</li> <li>✓ Mechanical Seal Maintenance and Troubleshooting</li> </ul>                                         | <ul style="list-style-type: none"> <li>✓ High Voltage Switching and Generator Synchronising Practice</li> <li>✓ Condition Monitoring and Maintenance of HV Switchgears and Transformers</li> <li>✓ Maintenance and Troubleshooting of AC &amp; DC Ups System</li> <li>✓ Testing, Pre-Commissioning and Commissioning of Electrical Equipment</li> <li>✓ Electrical Protection System</li> <li>✓ IQ Motor Operated Valve (MOV)</li> <li>✓ Selection, Installation and Inspection of Ex Equipment in Hazardous Area</li> </ul> | <ul style="list-style-type: none"> <li>✓ Plant Process Control &amp; DCS System Operation</li> <li>✓ Process Control Theory and Application</li> <li>✓ Instrumented Safeguarding System</li> <li>✓ Liquid and Gas Metering</li> <li>✓ Safety PLC-Tricon TMR</li> <li>✓ Programmable Logic Controller - Allen Bradley CLX5000</li> <li>✓ Honeywell EPKS Engineering &amp; Maintenance</li> </ul>                                                                                                                    |
| Advanced<br>≥ 8 years         | <ul style="list-style-type: none"> <li>✓ Gas Lift Operations and Optimisation</li> <li>✓ Wellhead and Production Header System</li> <li>✓ Gas Compression and Compressor Operation &amp; Control</li> <li>✓ Water Injection System</li> <li>✓ Watermaker Operation &amp; Maintenance</li> </ul>                                                                                                 | <ul style="list-style-type: none"> <li>✓ Tankage and Storage</li> <li>✓ Piping and Valves</li> <li>✓ Furnace</li> <li>✓ Gas Turbine: Operation and Care</li> <li>✓ Heat Exchangers: Operation and Care</li> <li>✓ Water and Wastewater Treatment System</li> <li>✓ Distillation Principles (Pilot Plant and CBT)</li> <li>✓ POTCP 01 - Distributed Control System (DCS)</li> <li>✓ POTCP 02 - Process Control</li> <li>✓ POTCP 03 - Process Troubleshooting</li> <li>✓ POTCP 04 - Plant Operation Practice</li> <li>✓ POTCP 05 - Process Safety Practice</li> </ul> | <ul style="list-style-type: none"> <li>✓ Pump Troubleshooting</li> </ul>                                                                                                                                                                                                                                                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>✓ HV System Switching</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>✓ P&amp;ID Tuning</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Legend:

★★ Programme is available upon request

Professional Development Programme (PDP)

Assessment & Certification Programme (A&C)





# Course Progression Map: Technician

| Technician |                                                                                                                                                                                                         |                                                                                                                                 |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All Levels | Health, Safety & Environment                                                                                                                                                                            |                                                                                                                                 |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                       |
|            | Upstream Carigali Requirement                                                                                                                                                                           | Legal                                                                                                                           | Oil & Gas                                                                                                                  | Safety                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Environment                                                                                                                                                                                                                                                                                           |
|            | <ul style="list-style-type: none"> <li>✓PCSB PTW Level 2 Certification Programme</li> <li>✓PCSB PTW Level 3 Certification Programme</li> </ul>                                                          | <ul style="list-style-type: none"> <li>✓ Safe Handling of Chemicals (SHOC)</li> <li>✓ Hearing Conservation Awareness</li> </ul> | <ul style="list-style-type: none"> <li>✓ RA Tools Training (BowTie, HAZID, HAZOP, P-HAZOP and PASR Application)</li> </ul> | <ul style="list-style-type: none"> <li>✓ AGT for Non-Confined Space</li> <li>✓ Basic First Aid (Knowledge Level)</li> <li>✓ Job Hazard Analysis (JHA)</li> <li>✓ Mercury Awareness</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>✓ BASEL Convention</li> <li>✓ Environmental Management Awareness</li> <li>✓ CePSWaM Field Training Report Preparation Workshop (FTR) _KL</li> <li>✓ CePSWaM Field Training Report Preparation Workshop (FTR)</li> <li>✓ Handling of Scheduled Waste</li> </ul> |
|            | Emergency & Crisis                                                                                                                                                                                      | Process Safety Management                                                                                                       | Fire                                                                                                                       | General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                       |
|            | <ul style="list-style-type: none"> <li>✓ Chemical Spill Response and Clean-Up</li> <li>✓ Emergency Response Team (ERT)</li> <li>✓ Incident Investigation</li> <li>✓ On-Scene Commander (OSC)</li> </ul> | <ul style="list-style-type: none"> <li>✓ Management of Change</li> <li>✓ Process Safety Awareness</li> </ul>                    | <ul style="list-style-type: none"> <li>✓ Basic Fire Fighting</li> </ul>                                                    | <ul style="list-style-type: none"> <li>✓ Office Ergonomics</li> <li>✓ Hydrogen Sulfide (H2S) Awareness</li> <li>✓ Emergency Management Programme (EMP)</li> <li>✓ Permit to Work Awareness</li> <li>✓ Hazardous Material (HAZMAT)</li> <li>✓ Personal Protective Equipment (PPE)</li> <li>✓ Working at Height</li> <li>✓ Working at Height &amp; Rescue</li> <li>✓ Asbestos Awareness</li> <li>✓ Energy Isolation</li> <li>✓ Hazard and Effect Management Process (HEMP)</li> <li>✓ Actively Caring in Safety</li> <li>✓ Benzene Awareness</li> <li>✓ Handling of Stress at the Workplace</li> <li>✓ Heat Stress Awareness</li> <li>✓ Human Factors</li> <li>✓ Indoor Air Quality Awareness</li> <li>✓ Manual Handling Awareness</li> </ul> |                                                                                                                                                                                                                                                                                                       |

Legend:

★★ Programme is available upon request

Professional Development Programme (PDP)

Assessment & Certification Programme (A&C)



**Professional**

**Development**

**Programme (PDP)**

*"Experiencing is Enriching"*



# OTS PDP: Exploration & Production (E&P)

| Programme Leader :<br>Mohamad Muaz Bin Abdul Rasid<br>+609-668 6148<br>+6016-656 9468<br><a href="mailto:mohamadmuaz.abdrasi@petronas.com.my">mohamadmuaz.abdrasi@petronas.com.my</a> |                                                                         | Level | Prog. Type | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | Course<br>Fee<br>(RM) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | CPD Hours   | 2021                                            |         |         |       |     |        |         |        |         |         |        |       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------|------------|---------------------------------------------------------------------------|-----------------------|------------|------------|--------------------|-------------|-------------------------------------------------|---------|---------|-------|-----|--------|---------|--------|---------|---------|--------|-------|--|
|                                                                                                                                                                                       |                                                                         |       |            |                                                                           |                       |            |            |                    |             | Jan                                             | Feb     | Mac     | Apr   | May | June   | July    | Aug    | Sept    | Oct     | Nov    | Dec   |  |
| Drilling Programme                                                                                                                                                                    |                                                                         |       |            |                                                                           |                       |            |            |                    |             |                                                 |         |         |       |     |        |         |        |         |         |        |       |  |
| 1                                                                                                                                                                                     | OTS PDP : Drilling for Non-Driller, L2                                  | 2     | F2F (NR)   | KL                                                                        | 2800                  | 5          | 20         | 2                  | 10          |                                                 |         |         |       |     | 15-16  |         |        |         |         |        |       |  |
| Exploration & Production Programme                                                                                                                                                    |                                                                         |       |            |                                                                           |                       |            |            |                    |             |                                                 |         |         |       |     |        |         |        |         |         |        |       |  |
| 2                                                                                                                                                                                     | OTS PDP : Well Operation & Maintenance, L2                              | 2     | F2F (NR)   | KL                                                                        | 3,270                 | 5          | 20         | 3                  | 15          | <a href="#">Upon Request (Click to Enquire)</a> |         |         |       |     |        |         |        |         |         |        |       |  |
| Petroleum Industry Programme                                                                                                                                                          |                                                                         |       |            |                                                                           |                       |            |            |                    |             |                                                 |         |         |       |     |        |         |        |         |         |        |       |  |
| 3                                                                                                                                                                                     | OTS PDP : Introduction to Petroleum Technology, L2 (VILT)               | 2     | VILT       | MS Teams                                                                  | 2,210                 | 9          | 15         | 4                  | 20          |                                                 | 22-25   |         | 5-8   |     |        |         | 23-26  |         |         |        | 20-23 |  |
| 4                                                                                                                                                                                     | OTS PDP : Overview of Petroleum Industry, L2                            | 2     | F2F (NR)   | KL                                                                        | 3,880                 | 5          | 20         | 3                  | 15          | <a href="#">Upon Request (Click to Enquire)</a> |         |         |       |     |        |         |        |         |         |        |       |  |
| Technician Programme                                                                                                                                                                  |                                                                         |       |            |                                                                           |                       |            |            |                    |             |                                                 |         |         |       |     |        |         |        |         |         |        |       |  |
| 5                                                                                                                                                                                     | OTS PDP : Basic Petroleum Prod, Transportation & Processes, L2          | 2     | F2F (NR)   | KL                                                                        | 3,380                 | 5          | 20         | 3                  | Coming soon |                                                 | 22 - 24 |         |       |     |        |         |        |         |         |        |       |  |
| 6                                                                                                                                                                                     | OTS PDP : Crude Separation and Crude/ Condensate Stabilisation, L2      | 2     | F2F (NR)   | KL                                                                        | 3,380                 | 10         | 20         | 3                  | 15          | <a href="#">Upon Request (Click to Enquire)</a> |         |         |       |     |        |         |        |         |         |        |       |  |
| 7                                                                                                                                                                                     | OTS PDP : Gas Lift Operations and Optimisation, L2                      | 2     | F2F (NR)   | KL                                                                        | 3,100                 | 5          | 20         | 3                  | Coming soon |                                                 |         | 15 - 17 |       |     |        |         |        |         |         |        |       |  |
| 8                                                                                                                                                                                     | OTS PDP : Gas Compression and Compressor Operation & Control, L2 (VILT) | 2     | VILT       | MS Teams                                                                  | 1,870                 | 10         | 20         | 3                  | 15          |                                                 |         |         | 5 - 7 |     |        |         |        |         |         |        |       |  |
| 9                                                                                                                                                                                     | OTS PDP : Gas Dehydration and Regeneration System, L2 (VILT)            | 2     | VILT       | MS Teams                                                                  | 1,870                 | 8          | 20         | 3                  | 15          |                                                 |         |         |       |     | 14 -16 |         |        |         |         |        |       |  |
| 10                                                                                                                                                                                    | OTS PDP : Heat Exchanger Operation & Maintenance, L2                    | 2     | F2F (NR)   | KL                                                                        | 3,270                 | 5          | 20         | 3                  | 15          | <a href="#">Upon Request (Click to Enquire)</a> |         |         |       |     |        |         |        |         |         |        |       |  |
| 11                                                                                                                                                                                    | OTS PDP : Hydrocarbon Treatment System, L2                              | 2     | F2F (NR)   | KL                                                                        | 3,270                 | 5          | 20         | 3                  | 15          |                                                 |         |         |       |     |        |         |        |         |         |        |       |  |
| 12                                                                                                                                                                                    | OTS PDP : Oil and Gas Terminal Operation, L2                            | 2     | F2F (NR)   | KL                                                                        | 3,270                 | 5          | 20         | 3                  | Coming soon |                                                 |         |         |       |     |        |         |        |         |         |        |       |  |
| 13                                                                                                                                                                                    | OTS PDP : Petroleum Liquid and Gas Properties, L2                       | 2     | F2F (NR)   | KL                                                                        | 3,460                 | 5          | 20         | 3                  | 15          |                                                 |         |         |       |     |        | 12 - 14 |        |         |         |        |       |  |
| 14                                                                                                                                                                                    | OTS PDP : Pipe, Valve, Fitting and P&ID, L2                             | 2     | F2F (NR)   | KL                                                                        | 3,460                 | 5          | 20         | 3                  | 15          |                                                 |         |         |       |     |        |         | 16 -18 |         |         |        |       |  |
| 15                                                                                                                                                                                    | OTS PDP : Produced Water Treatment System on the Platform, L2           | 2     | F2F (NR)   | KL                                                                        | 3,460                 | 8          | 20         | 3                  | 15          |                                                 |         |         |       |     |        |         |        | 20 - 22 |         |        |       |  |
| 16                                                                                                                                                                                    | OTS PDP : Separator Operation, L2                                       | 2     | F2F (NR)   | KL                                                                        | 3,270                 | 5          | 20         | 3                  | 15          | <a href="#">Upon Request (Click to Enquire)</a> |         |         |       |     |        |         |        |         |         |        |       |  |
| 17                                                                                                                                                                                    | OTS PDP : Wellhead and Production Header System, L2                     | 2     | F2F (NR)   | KL                                                                        | 3,270                 | 10         | 20         | 3                  | 15          |                                                 |         |         |       |     |        |         |        |         |         | 8 - 10 |       |  |
| 18                                                                                                                                                                                    | OTS PDP : Water Injection System, L2                                    | 2     | F2F (NR)   | KL                                                                        | 3,270                 | 5          | 20         | 3                  | 15          |                                                 |         |         |       |     |        |         |        |         | 11 - 13 |        |       |  |
| 19                                                                                                                                                                                    | OTS PDP : Watermaker Operation & Maintenance, L2                        | 2     | F2F (NR)   | KL                                                                        | 3,270                 | 5          | 20         | 3                  | 15          | <a href="#">Upon Request (Click to Enquire)</a> |         |         |       |     |        |         |        |         |         |        |       |  |

- All INSTEP programmes are NOT HRDF CLAIMABLE effective 01 April 2021 until further notice
- Course fee stated above EXCLUDES tax
- Prog. type is subject to change:
  - » F2F : Face-to-Face Experiential Learning
  - » VILT : Virtual Instructor-Led Training
  - » R : Residential
  - » NR : Non-Residential



# OTS PDP: Exploration & Production (E&P)

| Programme Leader :<br>Mohamad Muaz Bin Abdul Rasid<br>+609-668 6148<br>+6016-656 9468<br><a href="mailto:mohamadmuaz.abdrasi@petronas.com.my">mohamadmuaz.abdrasi@petronas.com.my</a> |                                               | Level | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours | 2021                                            |     |     |     |     |      |      |     |      |     |     |     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-----------|-------------------------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|--|
|                                                                                                                                                                                       |                                               |       |            |                                                               |                 |         |         |                 |           | Jan                                             | Feb | Mac | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |  |
| Training Plant Operation – Upstream                                                                                                                                                   |                                               |       |            |                                                               |                 |         |         |                 |           |                                                 |     |     |     |     |      |      |     |      |     |     |     |  |
| 20                                                                                                                                                                                    | OTS PDP : Plant Process Troubleshooting, L2   | 2     | F2F (NR)   | INSTEP*                                                       | 4,630           | 5       | 12      | 3               | 15        | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |      |      |     |      |     |     |     |  |
| 21                                                                                                                                                                                    | OTS PDP : Plant Start-Up & Shutdown, L2       | 2     | F2F (NR)   | INSTEP*                                                       | 8,930           | 5       | 12      | 5               | 25        |                                                 |     |     |     |     |      |      |     |      |     |     |     |  |
| 22                                                                                                                                                                                    | OTS PDP : Plant Monitoring & Optimisation, L2 | 2     | F2F (NR)   | INSTEP*                                                       | 5,520           | 5       | 12      | 3               | 15        |                                                 |     |     |     |     |      |      |     |      |     |     |     |  |
| 23                                                                                                                                                                                    | OTS PDP : P&ID and Schematic Diagram, L2      | 2     | F2F (NR)   | INSTEP*                                                       | 5,520           | 5       | 12      | 3               | 15        |                                                 |     |     |     |     |      |      |     |      |     |     |     |  |
| 24                                                                                                                                                                                    | OTS PDP : Upstream Plant Familiarisation, L2  | 2     | F2F (NR)   | INSTEP*                                                       | 4,820           | 5       | 12      | 2               | 10        |                                                 |     |     |     |     |      |      |     |      |     |     |     |  |

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  - » F2F : Face-to-Face Experiential Learning
  - » VILT : Virtual Instructor-Led Training
  - » R : Residential
  - » NR : Non-Residential



# OTS PDP: Process & Analytical (P&A) – Process Operations

| Programme Leader :<br>Elias Abllah<br>+6012-717 6903<br><a href="mailto:elias.abllah@petronas.com.my">elias.abllah@petronas.com.my</a> |                                                          | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTF) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021  |                |       |              |     |            |            |                |       |            |            |            |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|-------|----------------|-------|--------------|-----|------------|------------|----------------|-------|------------|------------|------------|
|                                                                                                                                        |                                                          |            |                                                               |                 |         |         |                 |             | Jan   | Feb            | Mar   | Apr          | May | June       | July       | Aug            | Sept  | Oct        | Nov        | Dec        |
| 1                                                                                                                                      | OTS PDP: Compressor, Fan and Blowers: Operation and Care | F2F (NR)   | KL                                                            | 4,200           | 8       | 20      | 3               | 15          |       |                |       | 5-7          |     |            | 5-7        |                |       | 4-6        |            |            |
| 2                                                                                                                                      | OTS PDP: Cooling Water                                   | F2F (NR)   | KL                                                            | 4,200           | 8       | 20      | 3               | Coming soon |       | 8-10           |       |              |     | 21-23      |            |                |       |            |            | 13-15      |
| 3                                                                                                                                      | OTS PDP: Distillation Principles (Pilot Plant and CBT)   | F2F (NR)   | INSTEP*                                                       | 3,180           | 8       | 15      | 3               | 15          |       |                |       |              |     |            | 5-7        |                |       |            |            |            |
| 4                                                                                                                                      | OTS PDP: Filter and Strainer: Operation and Care         | F2F (NR)   | KL                                                            | 3,100           | 8       | 20      | 2               | 10          |       |                | 1-2   |              |     |            | 12-13      |                |       |            |            |            |
| 5                                                                                                                                      | OTS PDP: Fundamentals Process Control System Engineering | F2F (NR)   | INSTEP*                                                       | 3,500           | 8       | 15      | 4               | Coming soon | 18-21 |                |       |              |     |            | 12-15      |                |       | 11-14      |            |            |
| 6                                                                                                                                      | OTS PDP: Furnace                                         | F2F (NR)   | KL                                                            | 3,100           | 8       | 20      | 2               | 10          |       |                | 8-9   |              |     |            |            | 2-3            |       |            |            | 6-7        |
| 7                                                                                                                                      | OTS PDP: Gas Turbine: Operation and Care                 | VILT       | MS Teams                                                      | 1,140           | 6       | 20      | 3               | 15          |       |                |       | 5-7          |     |            |            |                | 6-8   |            |            | 20-22      |
| 8                                                                                                                                      | OTS PDP: Heat Exchangers: Operation and Care             | F2F (NR)   | KL/Kerteh                                                     | 4,200           | 8       | 20      | 3               | 15          |       | 22-24 (Kerteh) |       |              |     | 28-30 (KL) |            |                |       | 11-13 (KL) |            |            |
| 9                                                                                                                                      | OTS PDP: Piping and Valves                               | F2F (NR)   | KL/Kerteh                                                     | 4,200           | 8       | 20      | 3               | 15          |       | 8-10 (Kerteh)  |       |              |     | 21-23 (KL) |            |                |       |            |            | 20-22 (KL) |
| 10                                                                                                                                     | OTS PDP: Plant Air Systems                               | F2F (NR)   | KL                                                            | 3,100           | 8       | 20      | 2               | 10          |       |                |       |              |     | 1-2        |            |                |       | 8-9        |            |            |
| 11                                                                                                                                     | OTS PDP: Pump Operation and Care                         | F2F (NR)   | KL/Kerteh                                                     | 4,200           | 8       | 20      | 3               | 15          |       |                |       | 5-7 (Kerteh) |     |            | 26-28 (KL) |                |       |            |            | 13-15 (KL) |
| 12                                                                                                                                     | OTS PDP: Reactor: Operation and Care                     | F2F (NR)   | KL                                                            | 4,200           | 8       | 20      | 3               | Coming soon |       |                | 22-24 |              |     |            |            |                | 13-15 |            |            |            |
| 13                                                                                                                                     | OTS PDP: Separation Process                              | F2F (NR)   | KL                                                            | 3,100           | 8       | 20      | 2               | 10          |       |                |       |              |     |            |            | 23-24          |       | 8-9        |            |            |
| 14                                                                                                                                     | OTS PDP: Steam Turbine: Operation & Care                 | F2F (NR)   | KL                                                            | 4,200           | 8       | 20      | 3               | 15          |       |                |       |              |     |            |            |                | 20-22 |            |            | 28-30      |
| 15                                                                                                                                     | OTS PDP: Tankage and Storage                             | F2F (NR)   | KL                                                            | 4,200           | 8       | 20      | 3               | 15          |       |                |       | 5-7          |     |            |            |                | 27-29 |            | 22-24      |            |
| 16                                                                                                                                     | OTS PDP: Terminal Operation                              | F2F (NR)   | KL                                                            | 3,100           | 8       | 20      | 2               | 10          |       |                |       |              |     | 1-2        |            |                |       | 25-26      |            |            |
| 17                                                                                                                                     | OTS PDP: Terminal Operation (VILT)                       | VILT       | MS Teams                                                      | 530             | 10      | 25      | 2               | Coming soon |       |                |       |              |     |            |            | 16-17          |       |            |            |            |
| 18                                                                                                                                     | OTS PDP: Utility: Flare, LDS & Fuel Gas System (VILT)    | VILT       | MS Teams                                                      | 1,140           | 6       | 20      | 3               | 15          |       |                | 15-17 |              |     |            |            | 16-18          |       |            | 1-3        |            |
| 19                                                                                                                                     | OTS PDP: Water and Wastewater Treatment System           | F2F (NR)   | KL/Kerteh                                                     | 4,200           | 8       | 20      | 3               | Coming soon |       | 2-4 (KL)       |       |              |     |            |            | 23-25 (Kerteh) |       |            | 15-17 (KL) |            |

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  - » VILT : Virtual Instructor-Led Training
  - » R : Residential
  - » NR : Non-Residential



# OTS PDP: Process & Analytical (P&A) – Process Operations

| Programme Leader :<br>Elias Abllah<br>+6012-717 6903<br>elias.abllah@petronas.com.my |                                                            | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021 |       |      |     |     |       |       |       |       |     |     |     |
|--------------------------------------------------------------------------------------|------------------------------------------------------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|------|-------|------|-----|-----|-------|-------|-------|-------|-----|-----|-----|
|                                                                                      |                                                            |            |                                                               |                 |         |         |                 |             | Jan  | Feb   | Mac  | Apr | May | June  | July  | Aug   | Sept  | Oct | Nov | Dec |
| Training Plant Operation – Downstream                                                |                                                            |            |                                                               |                 |         |         |                 |             |      |       |      |     |     |       |       |       |       |     |     |     |
| 20                                                                                   | OTS PDP: Downstream Plant Familiarisation                  | F2F (NR)   | INSTEP*                                                       | 2,530           | 8       | 12      | 2               | Coming soon |      | 14-15 |      |     |     |       |       |       |       |     |     |     |
| 21                                                                                   | OTS PDP: Equipment Preparation for Maintenance (Isolation) | F2F (NR)   | INSTEP*                                                       | 3,850           | 8       | 12      | 3               |             |      |       | 8-10 |     |     |       |       |       |       |     |     |     |
| 22                                                                                   | OTS PDP: Plant Monitoring & Optimisation                   | F2F (NR)   | INSTEP*                                                       | 3,850           | 8       | 12      | 3               | 15          |      |       |      |     |     | 14-16 |       |       |       |     |     |     |
| 23                                                                                   | OTS PDP: Plant Process Troubleshooting, L2                 | F2F (NR)   | INSTEP*                                                       | 3,850           | 8       | 12      | 3               | 15          |      |       |      |     |     |       | 12-14 |       |       |     |     |     |
| 24                                                                                   | OTS PDP: Plant Start-Up & Shutdown                         | F2F (NR)   | INSTEP*                                                       | 6,200           | 8       | 12      | 5               | 25          |      |       |      |     |     |       |       | 22-26 |       |     |     |     |
| 25                                                                                   | OTS PDP: Plant Turnaround Management                       | F2F (NR)   | INSTEP*                                                       | 6,200           | 8       | 12      | 5               | 25          |      |       |      |     |     |       |       |       | 26-30 |     |     |     |
| 26                                                                                   | OTS PDP: P&ID and Schematic Diagram                        | F2F (NR)   | INSTEP*                                                       | 3,850           | 8       | 12      | 3               | 15          |      |       |      |     |     |       |       |       |       | 4-6 |     |     |

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# OTS PDP: Process & Analytical (P&A) – Laboratory

| Programme Leader :<br>Elias Abllah<br>+6012-717 6903<br><a href="mailto:elias.abllah@petronas.com.my">elias.abllah@petronas.com.my</a> |                                                               | Prog. Type | Venue*<br>(may be inclusive of Experiential Learning at UDTF) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021 |      |       |     |     |       |      |       |      |      |     |     |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|------|------|-------|-----|-----|-------|------|-------|------|------|-----|-----|
|                                                                                                                                        |                                                               |            |                                                               |                 |         |         |                 |             | Jan  | Feb  | Mar   | Apr | May | June  | July | Aug   | Sept | Oct  | Nov | Dec |
| 1                                                                                                                                      | OTS PDP: Calibration Requirements of Laboratory Equipment     | F2F (NR)   | KL                                                            | 4,200           | 8       | 20      | 3               | 15          |      |      |       |     |     |       |      |       |      | 8-10 |     |     |
| 2                                                                                                                                      | OTS PDP: Fundamental of Analysis and Hydrocarbon Chemistry    | F2F (NR)   | KL                                                            | 3,100           | 8       | 20      | 2               | 10          |      |      |       |     |     |       |      |       |      | 1-2  |     |     |
| 3                                                                                                                                      | OTS PDP: Inventory and Record                                 | F2F (NR)   | KL                                                            | 3,100           | 8       | 20      | 2               | 10          |      |      |       |     |     |       |      |       | 6-7  |      |     |     |
| 4                                                                                                                                      | OTS PDP: Laboratory Safety (VILT)                             | VILT       | MS Teams                                                      | 1,870           | 6       | 20      | 3               | Coming soon |      |      | 15-17 |     |     |       |      |       |      |      |     |     |
| 5                                                                                                                                      | OTS PDP: Maintenance and Troubleshooting of Gas Chromatograph | F2F (NR)   | INSTEP*                                                       | 3,910           | 8       | 20      | 3               | 15          |      |      |       |     |     |       |      | 23-25 |      |      |     |     |
| 6                                                                                                                                      | OTS PDP: Physical and Biological Techniques                   | F2F (NR)   | KL                                                            | 4,200           | 8       | 20      | 3               | 15          |      |      |       |     |     |       |      |       |      |      | 6-8 |     |
| 7                                                                                                                                      | OTS PDP: Principles and Calibration of Gas Chromatograph      | F2F (NR)   | KL                                                            | 4,200           | 8       | 20      | 3               | 15          |      |      |       |     |     | 28-30 |      |       |      |      |     |     |
| 8                                                                                                                                      | OTS PDP: Reagent Preparation and Standardisation              | F2F (NR)   | KL                                                            | 2,740           | 8       | 20      | 2               | 10          |      |      |       | 5-6 |     |       |      |       |      |      |     |     |
| 9                                                                                                                                      | OTS PDP: Sample Management and Field Testing                  | F2F (NR)   | KL                                                            | 4,200           | 8       | 20      | 3               | 15          |      |      |       |     |     |       | 5-7  |       |      |      |     |     |
| 10                                                                                                                                     | OTS PDP: Spectroscopy Technique Analysis                      | F2F (NR)   | Melaka                                                        | 4,200           | 8       | 20      | 3               | Coming soon |      |      | 1-3   |     |     |       |      |       |      |      |     |     |
| 11                                                                                                                                     | OTS PDP: Titration and Electrochemistry                       | F2F (NR)   | Kerteh                                                        | 4,200           | 8       | 20      | 3               | 15          |      |      |       |     |     |       |      |       |      | 4-6  |     |     |
| 12                                                                                                                                     | OTS PDP: Water & Wastewater Analysis                          | F2F (NR)   | INSTEP*                                                       | 3,180           | 8       | 20      | 3               | Coming soon |      | 8-10 |       |     |     |       |      |       |      |      |     |     |

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# OTS PDP: Mechanical Engineering

| Programme Leader:<br>M Naim Abu<br>+6013-574 9697<br><a href="mailto:mnaim.abu@petronas.com.my">mnaim.abu@petronas.com.my</a> |                                                                                | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021 |         |         |       |     |         |         |         |       |         |      |     |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|------|---------|---------|-------|-----|---------|---------|---------|-------|---------|------|-----|
|                                                                                                                               |                                                                                |            |                                                               |                 |         |         |                 |             | Jan  | Feb     | Mar     | Apr   | May | June    | July    | Aug     | Sept  | Oct     | Nov  | Dec |
| 1                                                                                                                             | OTS PDP : Alignment Principles & Technology                                    | F2F (NR)   | INSTEP*                                                       | 3,030           | 10      | 15      | 3               | Coming soon |      |         |         | 6 - 8 |     |         |         |         | 27-29 |         |      |     |
| 2                                                                                                                             | OTS PDP : Basic Principles of Rotating Equipment (VILT)                        | VILT       | MS Teams with Live Demonstration                              | 2,440           | 5       | 9       | 3               |             |      | 16-18   |         |       |     |         |         |         |       |         |      |     |
| 3                                                                                                                             | OTS PDP : Condition Monitoring of Rotating Equipment                           | F2F (NR)   | INSTEP*                                                       | 3,030           | 10      | 15      | 3               |             |      |         |         |       |     | 15 - 17 |         |         |       |         |      |     |
| 4                                                                                                                             | OTS PDP : Corrosion Control and Monitoring (VILT)                              | VILT       | MS Teams                                                      | 1,880           | 5       | 9       | 3               |             |      |         |         | 12-14 |     |         |         |         |       | 12-14   |      |     |
| 5                                                                                                                             | OTS PDP : Design, Operation, Maintenance & Inspection of Compressors & Blowers | F2F (NR)   | INSTEP*                                                       | 2,090           | 5       | 25      | 3               |             |      |         | 29 - 31 |       |     |         |         |         |       | 4-6     |      |     |
| 6                                                                                                                             | OTS PDP : Design, Operation, Maintenance & Inspection of Gas Turbines          | F2F (NR)   | INSTEP*                                                       | 2,090           | 5       | 25      | 3               |             |      |         |         |       |     |         | 26 - 28 |         | 6-8   |         |      |     |
| 7                                                                                                                             | OTS PDP : Design, Operation, Maintenance & Inspection of Pumps                 | F2F (NR)   | INSTEP*                                                       | 2,090           | 5       | 25      | 3               |             |      |         |         | 5 - 7 |     |         |         |         | 8-10  |         |      |     |
| 8                                                                                                                             | OTS PDP : Design, Operation, Maintenance & Inspection of Rotating Equipment    | F2F (NR)   | INSTEP*                                                       | 2,610           | 5       | 25      | 4               |             |      | 22 - 25 |         |       |     |         |         |         |       |         |      |     |
| 9                                                                                                                             | OTS PDP : Diesel Engine: Operation & Maintenance                               | F2F (NR)   | KL/Kerteh                                                     | 3,580           | 15      | 20      | 4               | 20          |      |         |         |       |     | 14 - 17 |         |         |       | 4-7     |      |     |
| 10                                                                                                                            | OTS PDP : Flange Management Training                                           | F2F (NR)   | INSTEP*                                                       | 3,590           | 5       | 20      | 3               | 15          |      |         |         |       |     | 28-30   |         |         | 21-23 |         |      |     |
| 11                                                                                                                            | OTS PDP : Gas Turbine Operation & Maintenance (VILT)                           | VILT       | MS Teams                                                      | 2,340           | 5       | 9       | 4               | 20          |      |         |         | 5-8   |     |         |         | 2-5     |       |         |      |     |
| 12                                                                                                                            | OTS PDP : Lubrication and Filtration (VILT)                                    | VILT       | MS Teams                                                      | 1,880           | 5       | 9       | 3               | Coming soon |      |         |         | 19-21 |     |         | 6-8     |         |       |         |      |     |
| 13                                                                                                                            | OTS PDP : Mechanical Seal Maintenance and Troubleshooting                      | F2F (NR)   | KL/Kerteh                                                     | 3,380           | 15      | 20      | 3               | 15          |      |         |         |       |     |         | 27-29   |         |       | 11 - 13 |      |     |
| 14                                                                                                                            | OTS PDP : Non-Destructive Testing                                              | F2F (NR)   | INSTEP*                                                       | 2,680           | 10      | 15      | 4               | Coming soon |      |         |         |       |     | 1-4     |         |         |       |         | 8-11 |     |
| 15                                                                                                                            | OTS PDP : Piping System Maintenance (Pipes and Fitting)                        | F2F (NR)   | INSTEP*                                                       | 1,680           | 5       | 20      | 2               |             |      |         |         |       |     | 29-30   |         |         |       |         |      |     |
| 16                                                                                                                            | OTS PDP : Positive Displacement Pump                                           | F2F (NR)   | INSTEP*                                                       | 2,180           | 10      | 15      | 2               | 10          |      |         |         |       |     |         |         | 11 - 12 |       |         |      |     |
| 17                                                                                                                            | OTS PDP : Precision Practical Alignment                                        | F2F (NR)   | INSTEP*                                                       | 2,090           | 5       | 20      | 3               | Coming soon |      |         |         |       |     |         |         | 16 - 18 |       |         |      |     |
| 18                                                                                                                            | OTS PDP : Pressure Relieving Devices                                           | F2F (NR)   | INSTEP*                                                       | 1,680           | 5       | 20      | 2               | 10          |      |         |         |       |     |         | 1 - 2   |         |       |         |      |     |
| 19                                                                                                                            | OTS PDP : Pump Troubleshooting                                                 | F2F (NR)   | INSTEP*                                                       | 1,670           | 5       | 20      | 2               | 10          |      |         |         |       |     |         |         |         | 8 - 9 |         |      |     |
| 20                                                                                                                            | OTS PDP : Pump Troubleshooting (VILT)                                          | VILT       | MS Teams                                                      | 1,430           | 5       | 9       | 2               | Coming soon |      |         | 24-25   |       |     |         |         |         |       |         |      |     |

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# OTS PDP: Mechanical Engineering

| Programme Leader:<br>M Naim Abu<br>+6013-574 9697<br>mnaim.abu@petronas.com.my |                                                         | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021 |     |       |       |         |        |       |       |      |     |       |     |
|--------------------------------------------------------------------------------|---------------------------------------------------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|------|-----|-------|-------|---------|--------|-------|-------|------|-----|-------|-----|
|                                                                                |                                                         |            |                                                               |                 |         |         |                 |             | Jan  | Feb | Mar   | Apr   | May     | June   | July  | Aug   | Sept | Oct | Nov   | Dec |
| 21                                                                             | OTS PDP : Quality Control (VILT)                        | VILT       | MS Teams                                                      | 1,880           | 5       | 9       | 3               | Coming soon |      |     |       | 12-14 |         |        |       |       |      |     |       |     |
| 22                                                                             | OTS PDP : Quality Control of Rotating Equipment (VILT)  | VILT       | MS Teams                                                      | 1,880           | 5       | 9       | 3               | 15          |      |     |       | 5 - 7 |         |        |       | 17-19 |      |     |       |     |
| 23                                                                             | OTS PDP : Reciprocating Compressor                      | F2F (NR)   | INSTEP*                                                       | 3,030           | 10      | 15      | 3               | 10          |      |     |       |       |         |        | 5 - 7 |       |      |     |       |     |
| 24                                                                             | OTS PDP : Reciprocating Compressor (VILT)               | VILT       | MS Teams                                                      | 1,880           | 5       | 9       | 3               | Coming soon |      |     | 29-31 |       |         |        |       |       |      | 5-7 |       |     |
| 25                                                                             | OTS PDP : Single Stage Centrifugal Pump                 | F2F (NR)   | INSTEP*                                                       | 3,030           | 10      | 15      | 3               |             |      |     |       |       | 24 - 26 |        |       |       |      |     | 8-10  |     |
| 26                                                                             | OTS PDP : Single Stage Steam Turbine (VILT)             | VILT       | MS Teams                                                      | 1,880           | 5       | 9       | 3               |             |      |     |       | 20-22 |         |        |       |       |      | 4-6 |       |     |
| 27                                                                             | OTS PDP : Unfired Pressure Vessel Inspection (VILT)     | VILT       | MS Teams                                                      | 1,880           | 5       | 9       | 3               |             |      |     | 23-25 |       |         |        |       |       | 6-8  |     |       |     |
| 28                                                                             | OTS PDP : Valves and Safety Valves Maintenance & Repair | F2F (NR)   | INSTEP*                                                       | 3,030           | 10      | 15      | 3               | 15          |      |     |       |       |         | 8 - 10 |       |       |      |     | 15-17 |     |
| 29                                                                             | OTS PDP : Welding Inspection                            | F2F (NR)   | INSTEP*                                                       | 2,130           | 10      | 15      | 3               | 15          |      |     |       |       |         | 8 - 10 |       |       |      |     | 8-10  |     |
| 30                                                                             | OTS PDP : Welding Inspection (VILT)                     | VILT       | MS Teams                                                      | 1,670           | 5       | 9       | 3               | Coming soon |      |     | 15-17 |       |         |        |       |       |      |     |       |     |
| 31                                                                             | OTS PDP : Welding Technology                            | F2F (NR)   | INSTEP*                                                       | 2,610           | 10      | 15      | 4               | 20          |      |     |       |       |         |        | 5 - 8 |       |      |     |       |     |

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# OTS PDP: Electrical

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|---------------------------------|---------|---------|-------|---------|---------|---------|---------|---------|---------|--------|---------|
|                                                                                                                                                                                       |                                                                                          | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | Jan                             | Feb     | Mar     | Apr   | May     | June    | July    | Aug     | Sept    | Oct     | Nov    | Dec     |
| 1                                                                                                                                                                                     | OTS PDP : Basic Application of Ex Equipment                                              | F2F (NR)   | INSTEP*                                                       | 2,190           | 5       | 8       | 2               | 10          |                                 |         |         |       |         |         |         |         |         | 5 - 6   |        |         |
| 2                                                                                                                                                                                     | OTS PDP : Condition-Based Monitoring of High Voltage Switchgears and Transformers (VILT) | VILT       | MS Teams                                                      | 2,840           | 6       | 15      | 4               | 20          |                                 |         |         | 5 - 8 |         |         |         |         |         |         |        | 6-9     |
| 3                                                                                                                                                                                     | OTS PDP : Earthing, Lightning & Cathodic Protection System (VILT)                        | VILT       | MS Teams                                                      | 2,340           | 6       | 15      | 3               | 15          |                                 |         |         |       |         |         | 27 - 29 |         |         |         |        |         |
| 4                                                                                                                                                                                     | OTS PDP : Electrical Protection System (VILT)                                            | VILT       | MS Teams                                                      | 2,840           | 6       | 15      | 4               | 20          |                                 |         |         |       |         | 14 - 17 |         |         |         |         | 8 - 11 |         |
| 5                                                                                                                                                                                     | OTS PDP : Generator Operation and Control System (VILT)                                  | VILT       | MS Teams                                                      | 2,340           | 6       | 15      | 3               | 15          |                                 |         | 16 - 18 |       |         |         |         |         |         |         | 1-3    |         |
| 6                                                                                                                                                                                     | OTS PDP : High Voltage Switching and Generator Synchronising Practice                    | F2F (NR)   | INSTEP*                                                       | 6,910           | 5       | 8       | 5               | 25          | Upon Request (Click to enquire) |         |         |       |         |         |         |         |         |         |        |         |
| 7                                                                                                                                                                                     | OTS PDP : High Voltage System Switching (VILT)                                           | VILT       | MS Teams                                                      | 2,340           | 6       | 15      | 3               | 15          |                                 | 16 - 18 |         |       |         |         |         | 17 - 19 |         |         |        |         |
| 8                                                                                                                                                                                     | OTS PDP : Low Voltage Switching and Generator Synchronising Practice                     | F2F (NR)   | INSTEP*                                                       | 5,280           | 5       | 8       | 5               | 25          | Upon Request (Click to enquire) |         |         |       |         |         |         |         |         |         |        |         |
| 9                                                                                                                                                                                     | OTS PDP : Operation and Maintenance of High Voltage Motor (VILT)                         | VILT       | MS Teams                                                      | 2,340           | 6       | 15      | 3               | 15          |                                 |         |         |       |         | 22-24   |         |         |         | 5-7     |        |         |
| 10                                                                                                                                                                                    | OTS PDP : Operation and Maintenance of Solar Energy Equipment (VILT)                     | VILT       | MS Teams                                                      | 2,340           | 6       | 15      | 3               |             |                                 |         |         |       |         | 22-24   |         |         |         |         | 16-18  | 7-9     |
| 11                                                                                                                                                                                    | OTS PDP : Maintenance and Troubleshooting of AC & DC UPS System (VILT)                   | VILT       | MS Teams                                                      | 2,340           | 6       | 15      | 3               |             |                                 |         | 8 - 10  |       |         |         |         |         | 7 - 9   |         |        |         |
| 12                                                                                                                                                                                    | OTS PDP : Motor Operated Valve (MOV) (VILT)                                              | VILT       | MS Teams                                                      | 2,340           | 6       | 15      | 3               | 15          |                                 |         |         |       | 25 - 27 |         |         | 17-19   |         |         |        |         |
| 13                                                                                                                                                                                    | OTS PDP : Portable Electrical Equipment and Temporary Installation                       | F2F (NR)   | INSTEP*                                                       | 2,260           | 5       | 8       | 2               | 10          |                                 |         |         |       | 26 - 27 |         |         |         |         |         |        |         |
| 14                                                                                                                                                                                    | OTS PDP : Portable Electrical Equipment and Temporary Installation (VILT)                | VILT       | MS Teams                                                      | 1,760           | 6       | 15      | 2               | Coming soon |                                 |         |         |       |         |         |         |         |         |         |        | 14 - 15 |
| 15                                                                                                                                                                                    | OTS PDP : Power Management Practice (VILT)                                               | VILT       | MS Teams                                                      | 1,760           | 6       | 8       | 2               |             |                                 |         |         |       |         |         |         |         | 28 - 29 | 20 -21  |        |         |
| 16                                                                                                                                                                                    | OTS PDP : Pre -Commissioning and Commissioning of Electrical Equipment (VILT)            | VILT       | MS Teams                                                      | 2,340           | 6       | 15      | 3               | 15          |                                 |         |         |       |         |         |         |         |         | 12 - 14 |        |         |
| 17                                                                                                                                                                                    | OTS PDP : Selection, Installation and Inspection of Ex Equipment (VILT)                  | VILT       | MS Teams                                                      | 2,840           | 6       | 15      | 4               | 20          |                                 | 1 - 4   |         |       |         |         |         | 23 - 26 |         |         |        |         |

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- Prog. type is subject to change:
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  - » VILT : Virtual Instructor-Led Training
  - » R : Residential
  - » NR : Non-Residential

# OTS PDP: Instrumentation & Control

| Programme Leader:<br>M Nazmi Mizan<br>+609-668 6322<br>+6017-909 6972<br>mnazmi.mizan@petronas.com.my |                                                                                    | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021                            |     |     |     |     |      |      |     |       |     |       |     |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|---------------------------------|-----|-----|-----|-----|------|------|-----|-------|-----|-------|-----|
|                                                                                                       |                                                                                    |            |                                                               |                 |         |         |                 |             | Jan                             | Feb | Mac | Apr | May | June | July | Aug | Sept  | Oct | Nov   | Dec |
| 1                                                                                                     | OTS PDP: Liquid and Gas Metering L2                                                | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       |     |       | 6-8 |
| 2                                                                                                     | OTS PDP: Liquid and Gas Metering L2 (VILT)**                                       | VILT       | MS Teams                                                      | 1,600           | 5       | 10      | 2               | Coming soon |                                 |     | 1-2 |     |     |      |      |     |       |     |       |     |
|                                                                                                       | OTS PDP: Liquid and Gas Metering L2 (Practical Session)**                          | F2F (NR)   | INSTEP*                                                       | 1,940           | 5       | 10      | 2               |             |                                 |     |     |     |     |      |      |     | 20-21 |     |       |     |
| 3                                                                                                     | OTS PDP: PID Tuning L2                                                             | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       | 4-6 |       |     |
| 4                                                                                                     | OTS PDP: Programmable Logic Controller Allen Bradley CLX5000 L3                    | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       |     | 15-17 |     |
| 5                                                                                                     | OTS PDP: Control Valve I L1                                                        | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | 15          | Upon Request (Click to Enquire) |     |     |     |     |      |      |     |       |     |       |     |
| 6                                                                                                     | OTS PDP: Control Valve II L2                                                       | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 7                                                                                                     | OTS PDP: ControlLogix System Maintenance & Troubleshooting L3                      | F2F (NR)   | INSTEP*                                                       | 4,930           | 8       | 15      | 3               | Coming soon |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 8                                                                                                     | OTS PDP: Gas Chromatograph L2                                                      | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 9                                                                                                     | OTS PDP: Gas Detection System L3                                                   | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 10                                                                                                    | OTS PDP: Gas Turbine & Control System Solar Turbotronic I L2                       | F2F (NR)   | Kuantan                                                       | 5,380           | 8       | 15      | 4               | Coming soon |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 11                                                                                                    | OTS PDP: GE Heavy Duty Gas Turbine L2                                              | F2F (NR)   | Melaka                                                        | 5,600           | 8       | 15      | 4               | 15          |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 12                                                                                                    | OTS PDP: Honeywell EPKS Engineering & Maintenance L3                               | F2F (NR)   | INSTEP*                                                       | 5,520           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 13                                                                                                    | OTS PDP: Instrument Installation and Maintenance L3                                | F2F (NR)   | KL                                                            | 4,450           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 14                                                                                                    | OTS PDP: Instrumented Safeguarding System I L1                                     | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | Coming soon |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 15                                                                                                    | OTS PDP: Instrumented Safeguarding System II L2                                    | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               |             |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 16                                                                                                    | OTS PDP: Introduction to the DCS Operation Experion PKS For Process Operator L3    | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 17                                                                                                    | OTS PDP: Introduction to the DCS Operation Yokogawa CS3000 for Process Operator L3 | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 18                                                                                                    | OTS PDP: Process Control Theory and Application L1                                 | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 19                                                                                                    | OTS PDP: Process Measurement I L1                                                  | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 20                                                                                                    | OTS PDP: Process Measurement II L2                                                 | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 21                                                                                                    | OTS PDP: Quality Measuring Instrument L2                                           | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | Coming soon |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 22                                                                                                    | OTS PDP: Safety PLC - Tricon TMR L3                                                | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | 15          |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 23                                                                                                    | OTS PDP: Solar Turbine & Control System II L3                                      | F2F (NR)   | Kuantan                                                       | 5,380           | 8       | 15      | 4               | 20          |                                 |     |     |     |     |      |      |     |       |     |       |     |
| 24                                                                                                    | OTS PDP: Vibration Monitoring System L2                                            | F2F (NR)   | INSTEP*                                                       | 4,370           | 8       | 15      | 3               | Coming soon |                                 |     |     |     |     |      |      |     |       |     |       |     |

## 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.

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# OTS PDP: Health, Safety & Environment (HSE)

| Programme Leader :<br>Raja Surida Bt Saiful Bahri<br>+609-668 6346<br>+6016-333 4094<br>rajasurida.sb@petronas.com.my |                                                                    |     | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTF) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021                                            |     |      |      |     |      |     |     |     |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|-------------------------------------------------|-----|------|------|-----|------|-----|-----|-----|--|--|--|
| Jan                                                                                                                   | Feb                                                                | Mac |            |                                                               |                 |         |         |                 |             | Apr                                             | May | June | July | Aug | Sept | Oct | Nov | Dec |  |  |  |
| Training Plant Operation- HSE                                                                                         |                                                                    |     |            |                                                               |                 |         |         |                 |             |                                                 |     |      |      |     |      |     |     |     |  |  |  |
| 1                                                                                                                     | OTS PDP : Managing of Major Emergency (Upstream)                   |     | F2F (NR)   | INSTEP*                                                       | 3,200           | 10      | 20      | 3               | Coming soon | <a href="#">Upon Request (Click to Enquire)</a> |     |      |      |     |      |     |     |     |  |  |  |
| 2                                                                                                                     | OTS PDP : Plant HSE Practices                                      |     | F2F (NR)   | INSTEP*                                                       | 3,200           | 10      | 20      | 3               |             |                                                 |     |      |      |     |      |     |     |     |  |  |  |
| HSE Programme                                                                                                         |                                                                    |     |            |                                                               |                 |         |         |                 |             |                                                 |     |      |      |     |      |     |     |     |  |  |  |
| 3                                                                                                                     | OTS PDP : AGT For Non-Confined Space                               |     | F2F (NR)   | INSTEP*                                                       | 620             | 15      | 15      | 1               | Coming soon | <a href="#">Upon Request (Click to Enquire)</a> |     |      |      |     |      |     |     |     |  |  |  |
| 4                                                                                                                     | OTS PDP : Basic Fire Fighting                                      |     | F2F (NR)   | INSTEP*                                                       | 620             | 15      | 20      | 1               |             |                                                 |     |      |      |     |      |     |     |     |  |  |  |
| 5                                                                                                                     | OTS PDP : Basic First Aid                                          |     | F2F (NR)   | INSTEP*                                                       | 620             | 15      | 20      | 1               |             |                                                 |     |      |      |     |      |     |     |     |  |  |  |
| 6                                                                                                                     | OTS PDP : Behaviour Safety                                         |     | F2F (NR)   | INSTEP*                                                       | 1,050           | 10      | 20      | 2               |             |                                                 |     |      |      |     |      |     |     |     |  |  |  |
| 7                                                                                                                     | OTS PDP : CePSWaM Field Training Report Preparation Workshop (FTR) |     | F2F (NR)   | INSTEP*                                                       | 1,050           | 10      | 20      | 2               |             |                                                 |     |      |      |     |      |     |     |     |  |  |  |
| 8                                                                                                                     | OTS PDP : Emergency Management Program (EMP)                       |     | F2F (NR)   | INSTEP*                                                       | 990             | 15      | 20      | 2               |             |                                                 |     |      |      |     |      |     |     |     |  |  |  |
| 9                                                                                                                     | OTS PDP : Emergency Response Team (ERT)                            |     | F2F (NR)   | INSTEP*                                                       | 990             | 15      | 20      | 2               |             |                                                 |     |      |      |     |      |     |     |     |  |  |  |
| 10                                                                                                                    | OTS PDP : Energy Isolation                                         |     | F2F (NR)   | INSTEP*                                                       | 620             | 15      | 20      | 1               |             |                                                 |     |      |      |     |      |     |     |     |  |  |  |
| 11                                                                                                                    | OTS PDP : Fundamental of Environmental Management (VILT)           |     | VILT       | MS Teams                                                      | 1,050           | 15      | 15      | 1               |             |                                                 |     |      |      |     |      |     |     |     |  |  |  |
| 12                                                                                                                    | OTS PDP : Fundamental of Process Safety (VILT)                     |     | VILT       | MS Teams                                                      | 1,050           | 15      | 15      | 1               |             |                                                 |     |      |      |     |      |     |     |     |  |  |  |
| 13                                                                                                                    | OTS PDP : Green House Gases                                        |     | F2F (NR)   | INSTEP*                                                       | 1,370           | 10      | 20      | 2               |             |                                                 |     |      |      |     |      |     |     |     |  |  |  |

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# OTS PDP: Health, Safety & Environment (HSE)

| Programme Leader :<br>Raja Surida Bt Saiful Bahri<br>+609-668 6346<br>+6016-333 4094<br>rajasurida.sb@petronas.com.my |                                                                                            | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTF) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021                                            |     |     |     |     |      |      |     |      |     |     |     |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|-------------------------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
|                                                                                                                       |                                                                                            |            |                                                               |                 |         |         |                 |             | Jan                                             | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 14                                                                                                                    | OTS PDP : Handling of Scheduled Waste                                                      | F2F (NR)   | INSTEP*                                                       | 620             | 15      | 20      | 1               | Coming soon | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |      |      |     |      |     |     |     |
| 15                                                                                                                    | OTS PDP : Handling of Stress at the Workplace                                              | F2F (NR)   | INSTEP*                                                       | 620             | 15      | 20      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 16                                                                                                                    | OTS PDP : Hazard and Effect Management Process (HEMP) (VILT)                               | VILT       | MS Teams                                                      | 2,030           | 10      | 10      | 3               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 17                                                                                                                    | OTS PDP : Hearing Conservation Programme (VILT)                                            | VILT       | MS Teams                                                      | 620             | 15      | 15      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 18                                                                                                                    | OTS PDP : HSE Essential Elements                                                           | F2F (NR)   | INSTEP*                                                       | 1,370           | 10      | 20      | 2               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 19                                                                                                                    | OTS PDP : HSE Leadership                                                                   | F2F (NR)   | INSTEP*                                                       | 1,370           | 10      | 20      | 2               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 20                                                                                                                    | OTS PDP : HSE Risk Assessment and Demonstration of ALARP                                   | F2F (NR)   | INSTEP*                                                       | 830             | 10      | 20      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 21                                                                                                                    | OTS PDP : Human Factors                                                                    | F2F (NR)   | INSTEP*                                                       | 620             | 15      | 20      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 22                                                                                                                    | OTS PDP : Hydrogen Sulfide (H2S) Awareness (VILT)                                          | VILT       | MS Teams                                                      | 870             | 15      | 15      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 23                                                                                                                    | OTS PDP : Incident Investigation (VILT)                                                    | VILT       | MS Teams                                                      | 1,450           | 10      | 15      | 2               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 24                                                                                                                    | OTS PDP : Job Hazard Analysis (JHA)                                                        | F2F (NR)   | INSTEP*                                                       | 620             | 15      | 20      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 25                                                                                                                    | OTS PDP : Management of Change                                                             | F2F (NR)   | INSTEP*                                                       | 1,370           | 15      | 20      | 2               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 26                                                                                                                    | OTS PDP : Management of Change (MOC) & Bypassing Safety Critical Protection Device (BSCPD) | F2F (NR)   | INSTEP*                                                       | 830             | 10      | 20      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 27                                                                                                                    | OTS PDP : Manual Handling                                                                  | F2F (NR)   | INSTEP*                                                       | 620             | 15      | 20      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 28                                                                                                                    | OTS PDP : Mercury Safety                                                                   | F2F (NR)   | INSTEP*                                                       | 620             | 15      | 20      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 29                                                                                                                    | OTS PDP : Office Ergonomics                                                                | F2F (NR)   | INSTEP*                                                       | 620             | 15      | 20      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 30                                                                                                                    | OTS PDP : Permit to Work Awareness                                                         | F2F (NR)   | INSTEP*                                                       | 620             | 15      | 20      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 31                                                                                                                    | OTS PDP : Personal Protective Equipment (PPE)                                              | F2F (NR)   | INSTEP*                                                       | 620             | 15      | 20      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 32                                                                                                                    | OTS PDP : Process Hazards Analysis (PHA) with HAZOP & Pre-Activity Safety Review (PASR)    | F2F (NR)   | INSTEP*                                                       | 830             | 10      | 20      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |

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# OTS PDP: Health, Safety & Environment (HSE)

| Programme Leader :<br>Raja Surida Bt Saiful Bahri<br>+609-668 6346<br>+6016-333 4094<br>rajasurida.sb@petronas.com.my |                                                                                         | Prog.<br>Type | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | Course Fee<br>(RM) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | CPD Hours   | 2021                                            |     |     |     |     |      |      |     |      |     |     |     |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------|--------------------|------------|------------|--------------------|-------------|-------------------------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
|                                                                                                                       |                                                                                         |               |                                                                           |                    |            |            |                    |             | Jan                                             | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 33                                                                                                                    | OTS PDP : RA Tools Training (BowTie, HAZID, HAZOP, P-HAZOP and PASR Application) (VILT) | VILT          | MS Teams                                                                  | 1,450              | 10         | 10         | 2                  | Coming soon | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |      |      |     |      |     |     |     |
| 34                                                                                                                    | OTS PDP : Safe Handling of Chemicals (SHOC) (VILT)                                      | VILT          | MS Teams                                                                  | 1,050              | 15         | 15         | 2                  |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 35                                                                                                                    | OTS PDP : Safety Critical Element (SCE) & Performance Standards                         | F2F (NR)      | INSTEP*                                                                   | 830                | 10         | 20         | 1                  |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 36                                                                                                                    | OTS PDP : Sustainability                                                                | F2F (NR)      | INSTEP*                                                                   | 1,370              | 10         | 20         | 2                  |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |
| 37                                                                                                                    | OTS PDP : Working at Height Awareness (VILT)                                            | VILT          | MS Teams                                                                  | 870                | 10         | 15         | 1                  |             |                                                 |     | 1   |     |     |      | 6    |     | 7    |     | 1   |     |
| 38                                                                                                                    | OTS PDP : Working at Height                                                             | F2F (NR)      | INSTEP*                                                                   | 1,450              | 10         | 10         | 2                  |             |                                                 |     | 2-3 |     |     |      | 7-8  |     | 8-9  |     | 2-3 |     |

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# OTS PDP: General Studies

| 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> |                                                       | Prog. Type | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021    |     |     |     |        |      |       |       |      |     |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|---------|-----|-----|-----|--------|------|-------|-------|------|-----|-------|-------|
|                                                                                                                                                                                      |                                                       |            |                                                               |                 |         |         |                 |             | Jan     | Feb | Mar | Apr | May    | June | July  | Aug   | Sept | Oct | Nov   | Dec   |
| 1                                                                                                                                                                                    | OTS PDP : English Writing Empowerment for NET         | F2F (NR)   | INSTEP*                                                       | 1,940           | 12      | 15      | 3               | Coming soon |         |     |     |     |        |      |       |       |      |     | 7 - 9 | 7 - 9 |
| 2                                                                                                                                                                                    | OTS PDP : English Writing Empowerment for NET (VILT)  | VILT       | MS Teams                                                      | 1,940           | 3       | 15      | 3               |             | 25 - 27 |     |     |     |        |      |       | 7 - 9 |      |     |       |       |
| 3                                                                                                                                                                                    | OTS PDP : English Speaking Empowerment for NET        | F2F (NR)   | Kerteh                                                        | 1,940           | 12      | 15      | 3               |             |         |     |     |     |        |      |       |       |      |     | 1-3   |       |
| 4                                                                                                                                                                                    | OTS PDP : English Speaking Empowerment for NET (VILT) | VILT       | MS Teams                                                      | 1,940           | 3       | 15      | 3               |             |         |     |     |     | 8 - 10 |      | 3 - 5 |       |      |     |       |       |

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  - » F2F : Face-to-Face Experiential Learning
  - » VILT : Virtual Instructor-Led Training
  - » R : Residential
  - » NR : Non-Residential





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INSTITUT TEKNOLOGI PETROLEUM PETRONAS

**Assessment &**

**Certification**

**A&C**

*"Experiencing is Enriching"*

# OTS 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.<br>Type | Venue*<br>(may be<br>Inclusive of<br>Experiential<br>Learning at<br>UDTP) | Course Fee<br>(RM)<br>(Fee Inclusive<br>of<br>Assessment) | Min<br>Pax | Max<br>Pax | Duration<br>(Days) | CPD Hours   | 2021  |       |       |     |     |      |      |     |      |                |       |       |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------|-----------------------------------------------------------|------------|------------|--------------------|-------------|-------|-------|-------|-----|-----|------|------|-----|------|----------------|-------|-------|
|                                                                                                                  |                                                                                    |               |                                                                           |                                                           |            |            |                    |             | Jan   | Feb   | Mac   | Apr | May | June | July | Aug | Sept | Oct            | Nov   | Dec   |
| Advanced Pigging Operation Certification Scheme (APOCS)                                                          |                                                                                    |               |                                                                           |                                                           |            |            |                    |             |       |       |       |     |     |      |      |     |      |                |       |       |
| 1                                                                                                                | OTS A&C : Advanced Pigging Operation Certification Scheme (APOCS)                  | F2F (NR)      | INSTEP*                                                                   | 7,000                                                     | 10         | 20         | 5                  | Coming soon |       | 21-25 | 14-18 | 4-8 |     |      |      |     |      | 10-14<br>24-29 | 14-18 | 12-16 |
| Upstream Panel Operator Certification Programme (UPOCP)                                                          |                                                                                    |               |                                                                           |                                                           |            |            |                    |             |       |       |       |     |     |      |      |     |      |                |       |       |
| 1                                                                                                                | OTS A&C : UPOCP: Control Room Operator – Emergency Response Preparedness (CRO-ERP) | F2F (NR)      | INSTEP*                                                                   | 7,000                                                     | 6          | 6          | 3                  | Coming soon | 19-21 |       | 21-23 |     |     |      |      | 2-4 | 5-7  | 11-13          | 23-25 | 6-8   |

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- Prog. type is subject to change:
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  - » VILT : Virtual Instructor-Led Training
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  - » NR : Non-Residential



# OTS 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) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021  |       |       |              |     |                  |       |       |              |              |               |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|-------|-------|-------|--------------|-----|------------------|-------|-------|--------------|--------------|---------------|--------------|
|                                                                                                                                                                         |                                                                                                                                            |            |                                                               |                 |         |         |                 |             | Jan   | Feb   | Mar   | Apr          | May | June             | July  | Aug   | Sept         | Oct          | Nov           | Dec          |
| 1                                                                                                                                                                       | OTS A&C: Certified Environmental Professional in the Operation of Industrial Effluent Treatment Systems (Biological Process) - CePIETSO BP | F2F (NR)   | INSTEP*                                                       | 5,000           | 15      | 24      | 5               | Coming soon | 17-21 | 21-25 | 14-18 | 4-8<br>18-22 |     | 6-10<br>27/6-1/7 | 25-29 | 15-19 | 5-9<br>26-30 | 3-7<br>24-28 | 7-11<br>21-25 | 5-9<br>19-23 |

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- Course fee stated above EXCLUDES tax
- Prog. type is subject to change:
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# OTS A&C: Mechanical & Inspection (M&I) – OSR Inspector

| Programme Leader :<br>Suhaili Hamah Muding-Muhamad<br>+609-668 6065<br>+6010-236 5883<br>suhaili.hamahmuding@petronas.com.my |    | Prog. Type                                   | Venue*<br>(may be Inclusive of Experiential Learning at UDTP) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours | 2021        |     |       |       |     |      |       |       |       |       |     |     |
|------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-----------|-------------|-----|-------|-------|-----|------|-------|-------|-------|-------|-----|-----|
|                                                                                                                              |    |                                              |                                                               |                 |         |         |                 |           | Jan         | Feb | Mar   | Apr   | May | June | July  | Aug   | Sept  | Oct   | Nov | Dec |
| <a href="#">NEW DATE</a>                                                                                                     | 1  | OTS A&C : Atmospheric Storage Tank           | F2F (NR)                                                      | KL/INSTEP*      | 2,960   | 5       | 10              | 1         | Coming soon |     |       |       |     |      |       | 19    | 1     |       |     |     |
| <a href="#">NEW DATE</a>                                                                                                     | 2  | OTS A&C : Fired Pressure Vessel Inspection   | F2F (NR)                                                      | KL/INSTEP*      | 5,290   | 5       | 10              | 2         |             |     |       | 15-16 |     |      |       |       | 6-7   |       |     |     |
|                                                                                                                              | 3  | OTS A&C : Hoisting & Lifting Equipment       | F2F (NR)                                                      | KL/INSTEP*      | 4,470   | 5       | 10              | 2         |             |     |       |       |     |      | 12-13 | 16-17 |       |       |     |     |
|                                                                                                                              | 4  | OTS A&C : HSE MS                             | F2F (NR)                                                      | KL/INSTEP*      | 3,710   | 5       | 10              | 1.5       |             |     | 17-18 |       |     |      |       | 2-3   |       |       |     |     |
| <a href="#">NEW DATE</a>                                                                                                     | 5  | OTS A&C : Non-Destructive Testing            | F2F (NR)                                                      | KL/INSTEP*      | 4,470   | 5       | 10              | 2         |             |     |       |       |     |      | 14-15 |       | 20-21 | 11-12 |     |     |
| <a href="#">NEW DATE</a>                                                                                                     | 6  | OTS A&C : OSR Competency Assessment          | F2F (NR)                                                      | KL/INSTEP*      | 1,660   | 3       | 10              | 1         |             |     |       | 25    |     |      |       |       | 29    |       |     |     |
|                                                                                                                              | 7  | OTS A&C : OSR MS                             | F2F (NR)                                                      | KL/INSTEP*      | 3,710   | 5       | 10              | 1.5       |             |     | 16-17 |       |     |      |       | 3-4   |       |       |     |     |
| <a href="#">NEW DATE</a>                                                                                                     | 8  | OTS A&C : Piping Inspection                  | F2F (NR)                                                      | KL/INSTEP*      | 4,470   | 5       | 10              | 2         |             |     |       |       | 5-6 |      |       |       |       | 20-21 |     |     |
| <a href="#">NEW DATE</a>                                                                                                     | 9  | OTS A&C : Risk Based Inspection              | F2F (NR)                                                      | KL/INSTEP*      | 4,470   | 5       | 10              | 2         |             |     |       |       | 7-8 |      |       |       | 14-15 |       |     |     |
|                                                                                                                              | 10 | OTS A&C : Unfired Pressure Vessel Inspection | F2F (NR)                                                      | KL/INSTEP*      | 5,290   | 5       | 10              | 2         |             |     |       | 17-18 |     |      |       | 11-12 |       |       |     |     |
| <a href="#">NEW DATE</a>                                                                                                     | 11 | OTS A&C : Welding Technology                 | F2F (NR)                                                      | KL/INSTEP*      | 4,470   | 5       | 10              | 2         |             |     |       |       |     |      |       | 23-24 |       | 13-14 |     |     |

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# OTS 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) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021                                            |     |             |     |     |            |      |       |       |       |               |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|-------------------------------------------------|-----|-------------|-----|-----|------------|------|-------|-------|-------|---------------|-------|
|                                                                                                                                                                                          |                                                                                                |            |                                                               |                 |         |         |                 |             | Jan                                             | Feb | Mar         | Apr | May | June       | July | Aug   | Sept  | Oct   | Nov           | Dec   |
| 1                                                                                                                                                                                        | OTS A&C : IECEX Unit Ex001 Competency Training Programme & Assessment **                       | F2F (NR)   | KL                                                            | 4,950           | 5       | 10      | 2               | 10          |                                                 |     |             |     |     | 16-17      |      | 17-18 |       |       | 9-10          |       |
| 2                                                                                                                                                                                        | A&C : IECEX Unit Ex001 Competency Training Programme (VILT)                                    | VILT       | MS Teams                                                      | 1,800           | 5       | 10      | 3               | 10          |                                                 |     |             |     |     | 21-23      |      | 17-19 |       |       | 9-11          |       |
| 3                                                                                                                                                                                        | OTS A&C : IECEX Unit Ex001 & Ex003 Competency Training Programme & Assessment **               | F2F (NR)   | INSTEP*                                                       | 8,430           | 5       | 10      | 4               | 20          |                                                 |     |             |     |     |            |      | 2-5   |       |       |               | 20-23 |
| 4                                                                                                                                                                                        | OTS A&C : IECEX Unit Ex001, Ex007 & Ex008 Competency Training Programme & Assessment **        | F2F (NR)   | INSTEP*                                                       | 8,850           | 5       | 10      | 4               | 20          |                                                 |     | 29/3 - 01/4 |     |     |            | 5-8  |       |       |       | 29/11 – 02/12 |       |
| 5                                                                                                                                                                                        | OTS A&C : IECEX Unit Ex001, Ex003, Ex007 & Ex008 Competency Training Programme & Assessment ** | F2F (NR)   | INSTEP*                                                       | 11,650          | 5       | 10      | 5               | Coming soon |                                                 |     |             |     |     | 20-24      |      |       | 26-30 |       |               |       |
| 6                                                                                                                                                                                        | OTS A&C : IECEX Unit Ex001, Ex004, Ex007 & Ex008 Competency Training Programme & Assessment ** | F2F (NR)   | INSTEP*                                                       | 11,650          | 5       | 10      | 5               |             |                                                 |     |             |     |     | 27/6 - 1/7 |      |       |       |       | 14-18         |       |
| 7                                                                                                                                                                                        | OTS A&C : IECEX Unit Ex001 & Ex009 Competency Training Programme & Assessment **               | F2F (NR)   | KL                                                            | 9,690           | 5       | 10      | 4               | 20          |                                                 |     |             |     |     |            |      |       |       | 25-28 |               |       |
| 8                                                                                                                                                                                        | OTS A&C : IECEX Refresher (Exclude Examination)                                                | F2F (NR)   | INSTEP*                                                       | 670             | N/A     |         | 1               | 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

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  - » NR : Non-Residential

# OTS 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. Type | Venue*<br>(may be Inclusive of Experiential Learning at UFTP) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours | 2021                                                      |     |     |     |     |      |      |     |      |     |     |     |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-----------|-----------------------------------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
|                                                                                                                                 |                                                    |          |            |                                                               |                 |         |         |                 |           | Jan                                                       | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 1                                                                                                                               | OTS A&C : A0 Chargeman                             | F2F (NR) | INSTEP*    | 15,030                                                        | 15              | 15      | 80      | Coming soon     |           | To be announced- TBA ( <a href="#">Click to Enquire</a> ) |     |     |     |     |      |      |     |      |     |     |     |
| 2                                                                                                                               | OTS A&C : A4 Chargeman                             | F2F (NR) | INSTEP*    | 18,730                                                        | 12              | 12      | 100     |                 |           |                                                           |     |     |     |     |      |      |     |      |     |     |     |
| 3                                                                                                                               | OTS A&C : B0 Chargeman                             | F2F (NR) | INSTEP*    | 20,990                                                        | 14              | 14      | 100     |                 |           |                                                           |     |     |     |     |      |      |     |      |     |     |     |
| 4                                                                                                                               | OTS A&C : B4 Chargeman                             | F2F (NR) | INSTEP*    | 22,830                                                        | 10              | 10      | 100     |                 |           |                                                           |     |     |     |     |      |      |     |      |     |     |     |
| 5                                                                                                                               | OTS A&C : Low Voltage Overhead Lines               | F2F (NR) | INSTEP*    | 4,690                                                         | 20              | 20      | 10      |                 |           |                                                           |     |     |     |     |      |      |     |      |     |     |     |
| 6                                                                                                                               | OTS A&C : High Voltage Overhead Lines              | F2F (NR) | INSTEP*    | 6,980                                                         | 10              | 10      | 13      |                 |           |                                                           |     |     |     |     |      |      |     |      |     |     |     |
| 7                                                                                                                               | OTS A&C : Low Voltage Generator and Synchronising  | F2F (NR) | INSTEP*    | 5,430                                                         | N/A             |         | 10      |                 |           | <a href="#">Upon Request (Click to Enquire)</a>           |     |     |     |     |      |      |     |      |     |     |     |
| 8                                                                                                                               | OTS A&C : High Voltage Generator and Synchronising | F2F (NR) | INSTEP*    | 6,480                                                         |                 |         | 10      |                 |           |                                                           |     |     |     |     |      |      |     |      |     |     |     |
| 9                                                                                                                               | OTS A&C : Refresher & Referral Examination         | F2F (NR) | INSTEP*    | 2,580                                                         |                 |         | 6       |                 |           |                                                           |     |     |     |     |      |      |     |      |     |     |     |
| 10                                                                                                                              | OTS A&C : Referral Examination                     | F2F (NR) | INSTEP*    | 510                                                           |                 |         | 1       |                 |           |                                                           |     |     |     |     |      |      |     |      |     |     |     |

## Note:

- The 2021 dates will be announced once Movement Control Order (MCO) has been lifted; and are subject to change depending on the COVID-19 situation from time to time. [Click here for confirmation/information](#)



# OTS 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) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021 |     |     |     |     |       |       |       |      |       |       |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|------|-----|-----|-----|-----|-------|-------|-------|------|-------|-------|-----|
|                                                                                                                                                                                          |                                                                                            |            |                                                               |                 |         |         |                 |             | Jan  | Feb | Mar | Apr | May | June  | July  | Aug   | Sept | Oct   | Nov   | Dec |
| 1                                                                                                                                                                                        | OTS A&C : Certified Personnel for Metering Validation and Calibration Competency Programme | F2F (NR)   | INSTEP*                                                       | 6,110           | 4       | 8       | 5               | Coming soon |      |     |     |     |     | 20-24 | 11-15 | 22-26 |      | 10-14 |       | 5-9 |
| 2                                                                                                                                                                                        | OTS A&C : Instrument Fitter                                                                | F2F (NR)   | INSTEP*                                                       | 4,310           | 4       | 8       | 4               |             |      |     |     |     |     | 14-17 |       |       |      |       | 22-25 |     |

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# OTS 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) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021                                            |     |     |     |     |      |      |     |      |     |     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|-------------------------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
|                                                                                                                                                                                       |                                                                               |            |                                                               |                 |         |         |                 |             | Jan                                             | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| 1                                                                                                                                                                                     | OTS A&C : Authorised Entrant and Standby Person for Confined Space            | F2F (NR)   | INSTEP*                                                       | 870             | 10      | 20      | 2               | Coming soon | <a href="#">Upon Request (Click to Enquire)</a> |     |     |     |     |      |      |     |      |     |     |     |
| 2                                                                                                                                                                                     | OTS A&C : Authorised Entrant and Standby Person for Confined Space –Refresher | F2F (NR)   | INSTEP*                                                       | 520             | 20      | 20      | 1               |             |                                                 |     |     |     |     |      |      |     |      |     |     |     |

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# OTS 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) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021  |       |       |     |            |      |      |     |             |       |       |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------|---------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-------------|-------|-------|-------|-----|------------|------|------|-----|-------------|-------|-------|------------|
|                                                                                                                                                                         |                                                                                        |          |               |                                                               |                 |         |         |                 |             | Jan   | Feb   | Mar   | Apr | May        | June | July | Aug | Sept        | Oct   | Nov   | Dec        |
| 1                                                                                                                                                                       | OTS A&C : Certified Environmental Professional in Scheduled Waste Management (CePSWaM) | F2F (NR) | INSTEP        |                                                               | 3,750           | 10      | 35      | 5               | Coming soon |       |       |       |     | 23-27      |      |      |     |             |       | 14-18 |            |
|                                                                                                                                                                         |                                                                                        | F2F (NR) | Kuala Lumpur  |                                                               | 3,750           | 10      | 35      | 5               |             | 25-29 |       | 15-19 | 5-9 | 31/5 – 4/6 |      |      |     |             | 11-15 | 22-26 | 29/11-3/12 |
|                                                                                                                                                                         |                                                                                        | F2F (NR) | Johor Bharu   |                                                               | 3,750           | 10      | 35      | 5               |             |       | 21-25 |       |     |            |      |      |     |             | 3-7   |       | 5-9        |
|                                                                                                                                                                         |                                                                                        | F2F (NR) | Kuantan       |                                                               | 3,750           | 10      | 35      | 5               |             |       |       |       |     |            |      |      |     |             |       |       |            |
|                                                                                                                                                                         |                                                                                        | F2F (NR) | Penang        |                                                               | 3,750           | 10      | 35      | 5               |             |       |       | 22-26 |     |            |      |      |     | 27/9 – 1/10 |       |       | 13-17      |
|                                                                                                                                                                         |                                                                                        | F2F (NR) | Kota Kinabalu |                                                               | 3,750           | 10      | 35      | 5               |             |       |       |       |     |            |      |      |     |             | 25-29 |       |            |
|                                                                                                                                                                         |                                                                                        | F2F (NR) | Miri          |                                                               | 3,750           | 10      | 35      | 5               |             |       |       |       |     |            |      |      |     |             | 8-12  |       |            |



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# OTS A&C: Health, Safety & Environment (HSE) – PCSB Permit to Work (PTW) Competency Level 2: New Candidate & Refresher

NEW DATE

| Programme Leader:<br>Nurul Nadia Binti Mohamad Sabry<br>+609-668 6078<br>+6019-522 6554<br>nurulnadia.mohamads@petronas.com.my |                                                                 |   |          | Level         | Prog. Type | Venue*<br>(may be inclusive of Experiential Learning at UOTP) | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours | 2021           |                                 |                        |              |              |               |                       |                                                                                                                                            |                                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---|----------|---------------|------------|---------------------------------------------------------------|-----------------|---------|---------|-----------------|-----------|----------------|---------------------------------|------------------------|--------------|--------------|---------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                |                                                                 |   |          |               |            |                                                               |                 |         |         |                 |           | Jan            | Feb                             | Mar                    | Apr          | May          | June          | July                  | Aug                                                                                                                                        | Sept                                                                                                                                                                                    | Oct                                                                                                                                               | Nov                                                                                                                                                                                | Dec                                                                                                                                                     |
| 1                                                                                                                              | OTS A&C : PCSB Permit to Work Competency Level 2- New Candidate | 2 | VILT     | MS Teams      | 700        | 20                                                            | 25              | 3       |         | Coming soon     |           | 11-13<br>25-27 | 8-10<br>15-17<br>22-24<br>23-25 | 4-6<br>15-17<br>23-25  | 5-7          | 4-6          | 8-10<br>21-23 | 13-15<br>26-28        | 3-5<br>16-18<br>17-19 (Session 1)<br>17-19 (Session 2)<br>23-25 (Session 1)<br>23-25 (Session 2)<br>24-26 (Session 1)<br>24-26 (Session 2) | 6-8 (Session 1)<br>6-8 (Session 2)<br>7-9 (Session 1)<br>7-9 (Session 2)<br>13-15<br>20-22<br>21-23 (Session 1)<br>21-23 (Session 2)<br>27-29<br>28-30 (Session 1)<br>28-30 (Session 2) | 4-6<br>5-7<br>11-13 (Session 1)<br>11-13 (Session 2)<br>12-14 (Session 1)<br>12-14 (Session 2)<br>25-27<br>26-28 (Session 1)<br>26-28 (Session 2) | 8-10 (Session 1)<br>8-10 (Session 2)<br>8-10 (Session 3)<br>9-11<br>15-17 (Session 1)<br>15-17 (Session 2)<br>15-17 (Session 3)<br>22-24<br>23-25 (Session 1)<br>23-25 (Session 2) | 1-3<br>6-8 (Session 1)<br>6-8 (Session 2)<br>6-8 (Session 3)<br>6-8 (Session 4)<br>20-22 (Session 1)<br>20-22 (Session 2)<br>20-22 (Session 3)<br>28-30 |
|                                                                                                                                |                                                                 |   |          |               |            |                                                               |                 |         |         |                 |           |                |                                 |                        |              | 23-25        |               |                       | N/A                                                                                                                                        |                                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                         |
|                                                                                                                                |                                                                 |   |          |               |            |                                                               |                 |         |         |                 |           | 11-13<br>25-27 | 8-10<br>22-24                   | 4-6<br>15-17           | 5-7          | 4-6          | 8-10          | 5-7<br>12-14          |                                                                                                                                            |                                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                         |
|                                                                                                                                |                                                                 |   |          |               |            |                                                               |                 |         |         |                 |           | 12-14<br>19-21 | 2-4<br>16-18<br>23-25           | 8-10<br>16-18<br>23-25 | 6-8<br>19-21 | 4-6<br>23-25 | 8-10<br>15-17 | 6-8<br>13-15<br>27-29 |                                                                                                                                            |                                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                         |
|                                                                                                                                |                                                                 |   |          |               |            |                                                               |                 |         |         |                 |           |                | 2-4                             | 4-6                    |              |              | 15-17         | 5-7                   |                                                                                                                                            |                                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                         |
|                                                                                                                                |                                                                 |   |          |               |            |                                                               |                 |         |         |                 |           | 11-13<br>18-20 | 8-10<br>23-25                   | 8-10<br>15-17          | 5-7<br>19-21 | 3-5<br>18-20 | 21-23         | 6-8<br>13-15<br>27-29 |                                                                                                                                            |                                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                         |
|                                                                                                                                |                                                                 |   | F2F (NR) | INSTEP*       | 1,370      | 15                                                            | 25              | 3       |         |                 |           |                |                                 |                        |              | 23-25        |               |                       | N/A                                                                                                                                        |                                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                         |
|                                                                                                                                |                                                                 |   |          | Shah Alam     | 1,370      | 15                                                            | 25              | 3       |         |                 |           | 11-13<br>25-27 | 8-10<br>22-24                   | 4-6<br>15-17           | 5-7          | 4-6          | 8-10          | 5-7<br>12-14          |                                                                                                                                            |                                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                         |
|                                                                                                                                |                                                                 |   |          | Kerteh        | 1,370      | 15                                                            | 25              | 3       |         |                 |           | 12-14<br>19-21 | 2-4<br>16-18<br>23-25           | 8-10<br>16-18<br>23-25 | 6-8<br>19-21 | 4-6<br>23-25 | 8-10<br>15-17 | 6-8<br>13-15<br>27-29 |                                                                                                                                            |                                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                         |
|                                                                                                                                |                                                                 |   |          | Kota Kinabalu | 1,370      | 15                                                            | 25              | 3       |         |                 |           |                | 2-4                             | 4-6                    |              |              | 15-17         | 5-7                   |                                                                                                                                            |                                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                         |
|                                                                                                                                |                                                                 |   |          | Miri          | 1,370      | 15                                                            | 25              | 3       |         |                 |           | 11-13<br>18-20 | 8-10<br>23-25                   | 8-10<br>15-17          | 5-7<br>19-21 | 3-5<br>18-20 | 21-23         | 6-8<br>13-15<br>27-29 |                                                                                                                                            |                                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                                                                         |

- All INSTEP programmes are NOT HRDF CLAIMABLE effective 01 April 2021 until further notice
- Course fee stated above EXCLUDES tax
- Prog. type is subject to change:
  - » F2F : Face-to-Face Experiential Learning
  - » VILT : Virtual Instructor-Led Training
  - » R : Residential
  - » NR : Non-Residential

# OTS A&C: Health, Safety & Environment (HSE) – PCSB Permit to Work (PTW) Competency Level 2: New Candidate & Refresher

| Programme Leader:<br>Nurul Nadia Binti Mohamad Sabry<br>+609-668 6078<br>+6019-522 6554<br><a href="mailto:nurulnadia.mohamads@petronas.com.my">nurulnadia.mohamads@petronas.com.my</a> |                                                                    | Level | Prog. Type | Venue    | Course Fee (RM) | Min Pax | Max Pax | Duration (Days) | CPD Hours   | 2021                             |                                |                                |                                            |                          |                     |                                |                                |                    |                                |                    |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------|------------|----------|-----------------|---------|---------|-----------------|-------------|----------------------------------|--------------------------------|--------------------------------|--------------------------------------------|--------------------------|---------------------|--------------------------------|--------------------------------|--------------------|--------------------------------|--------------------|----------|
|                                                                                                                                                                                         |                                                                    |       |            |          |                 |         |         |                 |             | Jan                              | Feb                            | Mar                            | Apr                                        | May                      | June                | July                           | Aug                            | Sept               | Oct                            | Nov                | Dec      |
| 1                                                                                                                                                                                       | OTS A&C : PCSB Permit to Work Competency Level 2- Refresher (VILT) | 2     | VILT       | MS Teams | 423             | 10      | 20      | 1               | Coming soon | 11<br>12<br>19<br>20<br>25<br>26 | 3<br>4<br>16<br>17<br>23<br>24 | 4<br>5<br>15<br>16<br>22<br>23 | 5<br>6<br>14<br>15<br>20<br>21<br>27<br>28 | 3<br>4<br>10<br>24<br>25 | 8<br>10<br>22<br>23 | 6<br>7<br>12<br>13<br>27<br>29 | 3<br>4<br>16<br>17<br>24<br>25 | 7<br>8<br>13<br>14 | 4<br>5<br>11<br>12<br>25<br>26 | 8<br>9<br>16<br>17 | 13<br>14 |



- All INSTEP programmes are NOT HRDF CLAIMABLE effective 01 April 2021 until further notice
- Course fee stated above EXCLUDES tax
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  - » VILT : Virtual Instructor-Led Training
  - » R : Residential
  - » NR : Non-Residential

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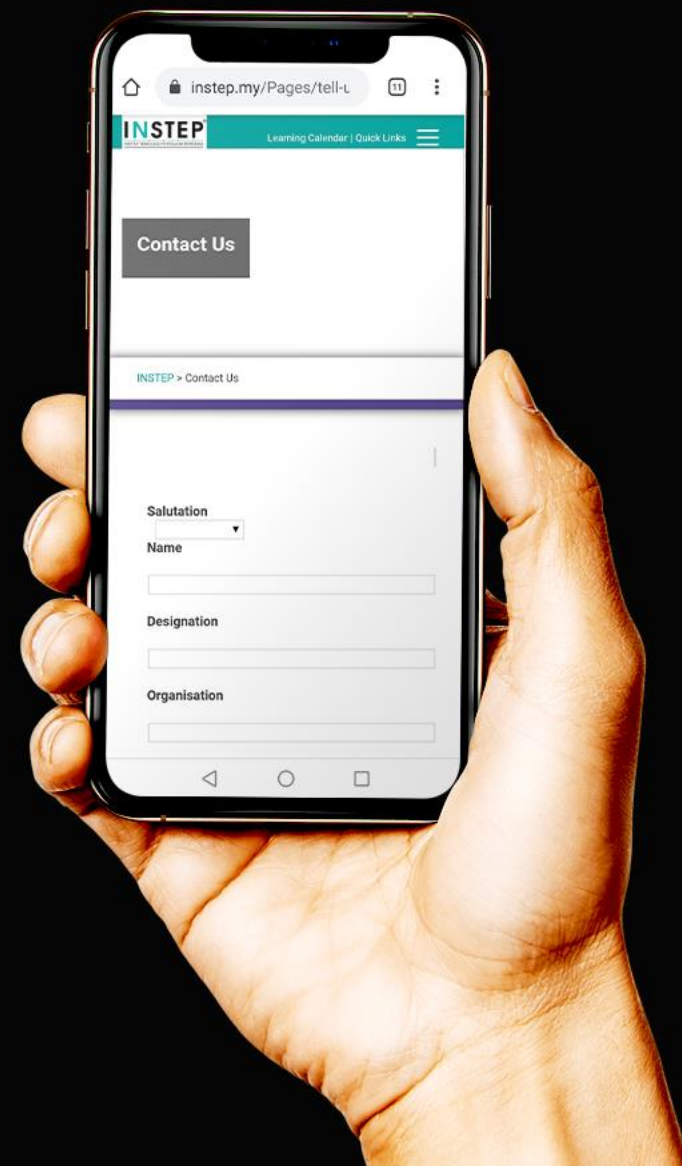
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