

**COURSE OVERVIEW DE0957**  
**Managing Well Site Operations**

**Course Title**

Managing Well Site Operations

**Course Date/Venue**

Session 1: February 16-20, 2025/Meeting Plus 8, City Centre Rotana Doha Hotel, Doha, Qatar  
 Session 2: August 17-21, 2025/Meeting Plus 8, City Centre Rotana Doha Hotel, Doha, Qatar



**Course Reference**

DE0957



**Course Duration/Credits**

Five days/3.0 CEUs/30 PDHs

**Course Description**



***This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.***



This course is designed to provide participants with a detailed and up-to-date overview of managing well site operations. It covers the wellhead equipment, purpose of the wellhead, major components of the wellhead, purpose design and operation of each; the xmas tree, tubing hanger, production packers, landing nipples and health, safety and environmental concerns; the subsurface control valve packer setting and the testing; and the normal wellhead, water injection, offshore wellhead, high pressure and anti-sulfide wellhead.



During this interactive course, participants will learn the lifting concepts and operating conditions for lifting and double-channel thermal recovery wellhead equipment; the off-center rotation wellhead, thermal recovery wellhead, theft prevention wellhead and visual inspections of wellhead; the valve selection calibration, function and pressure testing of valves, chokes and actuators; the lift equipment, valve control mechanics, inflow testing, wellhead safety valves, control system and non-destructive testing (NDT); the gauge calibration; the seabed inspection, lubrication, part procurement and replacement; and the well performance improvement.

### Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain an in-depth knowledge on managing well site operations
- Discuss wellhead equipment, purpose of the wellhead, major components of the wellhead and the purpose design and operation of each wellhead component
- Explain xmas tree, tubing hanger, production packers, landing nipples, health, safety and environmental concerns
- Apply subsurface control valve packer setting and testing, normal wellhead, water injection, high pressure, anti-sulfide wellhead and offshore wellhead
- Discuss lifting concepts and analyze operating conditions for lifting
- Identify double-channel thermal recovery wellhead equipment, off-center rotation wellhead, thermal recovery wellhead, theft prevention wellhead and visual inspections of wellhead
- Carryout valve selection and calibration including the function and pressure testing of valves, chokes and actuators
- Recognize lifting equipment and valve mechanics as well as apply inflow testing, wellhead safety valves, control system and non-destructive testing (NDT)
- Employ gauge calibration and replacement, seabed inspection, lubrication, part procurement and replacement and well performance improvement

### Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive “Haward Smart Training Kit” (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.

### Who Should Attend

This course provides an overview of all significant aspects and considerations of stuck pipe prevention and fishing operation for drilling operations section leaders, drilling engineering supervisors, well engineers, petroleum engineers, well servicing/workover/ completion staff and field production staff.

### Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Practical Workshops & Work Presentations
- 30% Hands-on Practical Exercises & Case Studies
- 20% Simulators (Hardware & Software) & Videos


In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

### Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

### Certificate Accreditations


Certificates are accredited by the following international accreditation organizations: -

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The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units (CEUs)** in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

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British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

### Course Fee

**US\$ 8,500** per Delegate. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

### Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

### Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



**Dr. John Petrus, PhD, MSc, BSc, is a Senior Process & Petroleum Engineer with over 30 years of onshore & offshore experience within the Oil & Gas, Refinery and Petroleum industries. His wide experience covers in the areas of Gas Sweetening Process at Upstream Oil & Gas, De-Sulfurization Technology, Process Troubleshooting, Distillation Towers, Fundamentals of Distillation for Engineers, Distillation Operation and Troubleshooting, Advanced Distillation Troubleshooting, Distillation Technology, Vacuum Distillation, Distillation Column Operation & Control, Oil Movement Storage & Troubleshooting, Process Equipment Design, Applied Process Engineering Elements, Process Plant Optimization, Revamping & Debottlenecking, Process Plant Troubleshooting & Engineering Problem Solving,**

**Process Plant Monitoring, Catalyst Selection & Production Optimization, Operations Abnormalities & Plant Upset, Process Plant Start-up & Commissioning, Clean Fuel Technology & Standards, Flare, Blowdown & Pressure Relief Systems, Oil & Gas Field Commissioning Techniques, Pressure Vessel Operation, Gas Processing, Chemical Engineering, Process Reactors Start-Up & Shutdown, Gasoline Blending for Refineries, Urea Manufacturing Process Technology, Continuous Catalytic Reformer (CCR), Advanced Operational & Troubleshooting Skills, Principles of Operations Planning, Rotating Equipment Maintenance & Troubleshooting. Further he is also well versed in Formation Damage & Acid Stimulation, Production Technology & Engineering, Well Completions, Well Logs, Well Stimulation & Production Logging, Well Completion Design & Operation, Well Surveillance, Well Testing, Well Stimulation & Control and Workover Planning, Completions & Workover, Hole Cleaning & Logging, Servicing and Work-Over Operations, Wellhead Operations, Maintenance & Testing, Petrophysics/Interpretation of Well Composite, Reservoir & Tubing Performance, Practical Reservoir Engineering, Clastic Exploration & Reservoir Sedimentology, Carbonate Reservoir Characterization & Modeling, Seismic Interpretation, Mapping & Reservoir Modelling, Reservoir Geology, Integrating Geoscience into Carbonate Reservoir Management, Faulted & Fractured Reservoirs, Fractured Hydrocarbon Reservoirs, Analyses, Characterisation & Modelling of Fractured Reservoirs & Prospects, Fracture Reservoir Modeling Using Petrel, Reservoir Engineering Applied Research, Artificial Lift, Artificial Lift System Selection & Design, Electrical Submersible Pumps (ESP), Enhance Oil Recovery (EOR), Hydraulic Fracturing, Sand Control Techniques, Perforating Methods & Design, Perforating Operations, Petroleum Exploration & Production, Hydrocarbon Exploration & Production, Exploration & Production, Play Assessment & Prospect Evaluation, Formation Evaluation, Petroleum Engineering Practices, Petroleum Hydrogeology & Hydrodynamics, Project Uncertainty, Decision Analysis & Risk Management, Decision Analysis & Uncertainty Management, Exploration & Development Geology, Sedimentology & Sequence Stratigraphy, Structural Interpretation in Exploration & Development, Petrel Geology, Geomodeling, Structural Geology, Applied Structural Geology in Hydrocarbon Exploration, Petrophysics and Geology of the Oil & Gas Field.. Further, he is also well-versed in seismic interpretation, mapping & reservoir modelling tools like Petrel software, LandMark, Seisworks, Geoframe, Zmap and has extensive knowledge in MSDos, Unix, AutoCAD, MAP, Overlay, Quicksurf, 3DStudio, Esri ArcGIS, Visual Lisp, Fortran-77 and Clipper. Moreover, he is a world expert in analysis and modelling of fractured prospects and reservoirs and a specialist and developer of fracture modelling software tools such as FPDm, FMX and DMX Protocols.**

During his career life, Dr. Petrus held significant positions and dedication as the **Executive Director, Senior Geoscience Advisor, Exploration Manager, Project Manager, Manager, Process Engineer, Mechanical Engineer, Maintenance Engineer, Chief Geologist, Chief of Exploration, Chief of Geoscience, Senior Geosciences Engineer, Senior Explorationist, Senior Geologist, Geologist, Senior Geoscientist, Geomodeler, Geoscientist, CPR Editor, Resources Auditor, Project Leader, Technical Leader, Team Leader, Scientific Researcher and Senior Instructor/Trainer** from various international companies and universities such as the Dragon Oil Holding Plc., ENOC, MENA, ENI Group of Companies, Ocre Geoscience Services (OGS), Burren RPL, Ministry of Oil-Iraq, Eni Corporate University, Stanford University, European Universities, European Research Institutes, NorskHydro Oil Company, Oil E&P Companies, just to name a few.

Dr. Petrus has a **PhD in Geology and Tectonophysics and Master and Bachelor degrees in Earth Sciences** from the **Utrecht University, The Netherlands**. Further, he is a **Certified Instructor/Trainer, a Certified Trainer/Assessor/Internal Verifier** by the **Institute of Leadership & Management (ILM)**, a Secretary and Treasurer of Board of Directors of Multicultural Centre, Association Steunfonds SSH/SSR and Founding Member of Sfera Association. He has further published several scientific publications, journals, research papers and books and delivered numerous trainings, workshops, courses, seminars and conferences internationally.



**Course Program**

The following program is planned for this course. However, the course instructor may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

**Day 1**

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	<b>PRE-TEST</b>
0830 – 0930	<b>Wellhead Equipment</b>
0930 – 0945	Break
0945 – 1045	<b>Purpose of the Wellhead</b>
1045 – 1130	<b>Major Components of the Wellhead</b>
1130 – 1230	<b>Purpose, Design &amp; Operation of Each Wellhead Component</b>
1230 – 1245	Break
1245 – 1330	<b>Xmas Tree</b>
1330 – 1420	<b>Tubing Hanger</b>
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day One

**Day 2**

0730 – 0830	<b>Production Packers &amp; Landing Nipples</b>
0830 – 0930	<b>Health, Safety &amp; Environmental Concerns</b>
0930 - 0945	Break
0945 – 1045	<b>Subsurface Control Valve Packer Setting &amp; Testing</b>
1045 – 1130	<b>Normal Wellhead &amp; Xmas Tree</b>
1130 – 1230	<b>Water Injection Wellhead &amp; Xmas Tree</b>
1230 – 1245	Break
1245 – 1330	<b>High Pressure &amp; Anti-Sulfide Wellhead &amp; Xmas Tree</b>
1330 – 1420	<b>Offshore Wellhead &amp; Xmas Tree</b>
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Two

**Day 3**

0730 – 0830	<b>Lifting Concepts</b>
0830 – 0930	<b>Analyse Operating Conditions for Lifting</b>
0930 - 0945	Break
0945 – 1045	<b>Double-Channel Thermal Recovery Wellhead Equipment</b>
1045 – 1130	<b>Off-Center Rotation Wellhead &amp; Xmas Tree</b>
1130 – 1230	<b>Thermal Recovery Wellhead &amp; Xmas Tree</b>
1230 – 1245	Break
1245 – 1330	<b>Theft Prevention Wellhead &amp; Xmas Tree</b>
1330 – 1420	<b>Visual Inspections of Wellhead</b>
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Three

**Day 4**

0730 – 0830	<b>Valve Selection &amp; Calibration</b>
0830 – 0930	<b>Function &amp; Pressure Testing of Valves, Chokes &amp; Actuators</b>
0930 - 0945	Break



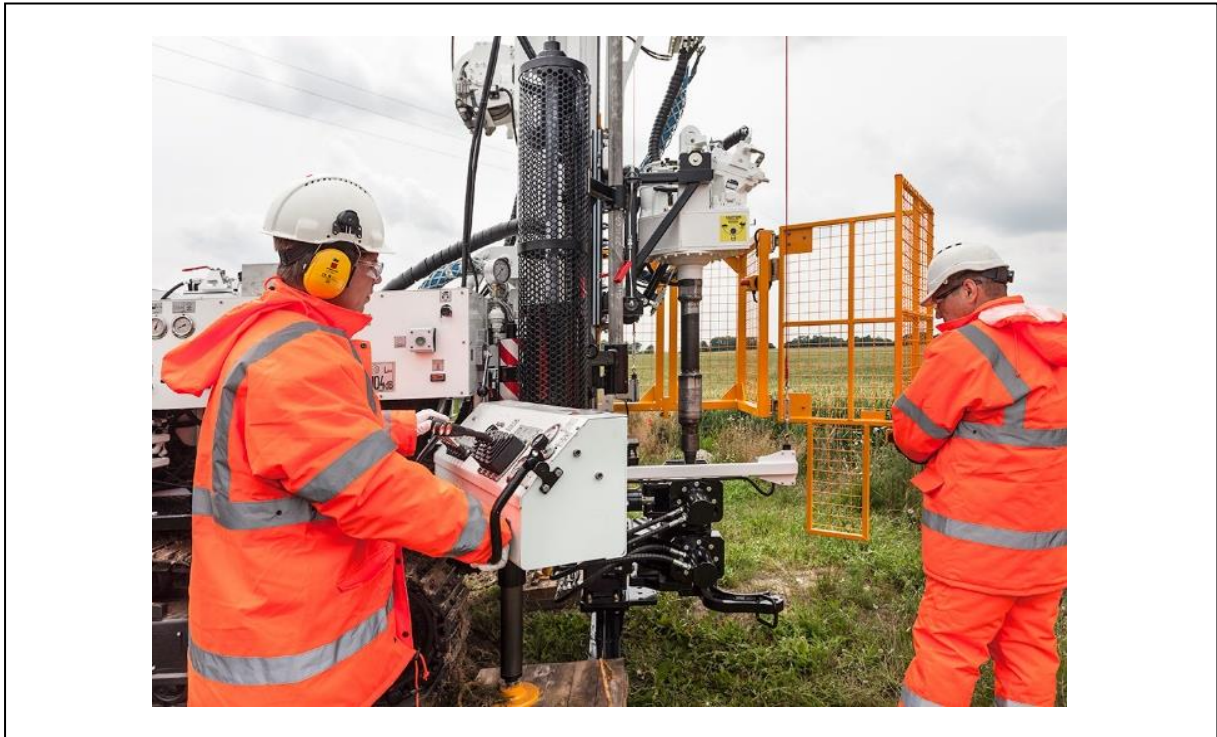
0945 – 1045	<i>Lifting Equipment &amp; Valve Mechanics</i>
1045 – 1130	<i>Inflow Testing</i>
1130 – 1230	<i>Wellhead Safety Valves &amp; Control System</i>
1230 – 1245	<i>Break</i>
1245 – 1420	<i>Non-Destructive Testing (NDT)</i>
1420 – 1430	<i>Recap</i>
1430	<i>Lunch &amp; End of Day Four</i>

**Day 5**

0730 – 0830	<i>Gauge Calibration &amp; Replacement</i>
0830 -0930	<i>Seabed Inspection</i>
0930 - 0945	<i>Break</i>
0945 – 1100	<i>Lubrication</i>
1100 – 1215	<i>Part Procurement &amp; Replacement</i>
1215 – 1230	<i>Break</i>
1230 – 1300	<i>Improve Well Performance</i>
1300 – 1345	<i>Case Studies</i>
1345 – 1400	<i>Course Conclusion</i>
1400 – 1415	<i>POST-TEST</i>
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch &amp; End of Course</i>

**Practical Sessions**

This practical and highly-interactive course includes real-life case studies and exercises:-



**Course Coordinator**

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