COURSE OVERVIEW DE0611(KP4)

Basic Drilling

Course Title
Basic Drilling

Course Date/Venue
Session 1: July 13-17, 2025/Meeting Plus 8, City Centre Rotana Doha Hotel, Doha, Qatar
Session 2: November 23-27, 2025/Meeting Plus 8, City Centre Rotana Doha Hotel, Doha, Qatar

3.0 CEUs (30 PDHs) AWARD

Course Reference
DE0611(KP4)

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 drilling technology. It covers the drilling operations for oil companies drilling contractors, service and government bodies; the basic petroleum geology; and the various types of drilling comprising of land rig, fixed platforms, tension leg platforms, semi submersible rigs, jack up drilling rigs, drill ships and barges.

During this interactive course, participants will learn the rig equipment; the hoisting, rotating, power, blowout prevention and circulation system; the auxiliary equipment systems and drilling, surface hole drilling and tripping operations; the running and cementing casing; and the coring, logging, testing, fishing and abandonment.

Course Objectives

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

- Apply and gain a basic knowledge in drilling technology
- Prepare drilling operations for oil companies drilling contractors, service and government bodies
- Discuss the basic petroleum geology and identify the types of drilling comprising of land rig, fixed platforms, tension leg platforms, semi submersible rigs, jack up drilling rigs, drill ships and barges
- Recognize the rig equipment and discuss hoisting, rotating, power, blowout prevention and circulation system
- Identify the auxiliary equipment systems and carryout drilling, surface hole drilling and tripping operations
- Apply running and cementing casing as well as coring, logging, testing, fishing and abandonment

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 is intended for drilling support staff, petroleum engineers, reservoir engineers, geologists, geophysicists, service company specialist engineers (cementing, logging, testing, drilling fluids, drill bits, surface facilities), project support staff (QHSE, materials, logistics, purchasing and finance), drilling contractor staff, sales engineers, business development managers, field service managers, R&D scientists/engineers.

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.

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: -

- 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.

- 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.

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:

Mr. Hossam Kachwar is a **Senior Geologist** with almost **20 years** of **Onshore** & **Offshore** experience within the **Oil & Gas**, **Refinery** and **Petrochemical** industries. His wide expertise covers in the areas of **Drilling Rigs**, **Jack-up Rig** Operation, **Drilling Process** Evaluation, **Rig Site** Operation, **Gas Formation** Evaluation, **Gas Ratio** Analysis & Interpretation, **Drilling Bit** Optimization, **Fracture Prediction**, **Fault Seal** Analysis, **Mudlogging & Wireline** Operations, **Core & Coring** Analysis, **Drilling** Parameters Monitoring, **Well Data** Results Interpretation, **Reserve** Estimation, **Reserve** Evaluation, **Reservoir** Characterization, **Uncertainty Calculations**, **Risk & Uncertainties** Management, **Resources & Reserves** Evaluation, **Reserves** Reporting, **Oil & Gas Reserves** Estimation, **Unconventional Resource & Reserve**, **Reservoir Management**, **Reservoir** Engineering, **Fractured Carbonate Reservoir**, **Reservoir** Geophysics, **Reservoir** Modelling, **Steam Flood Reservoir** Management, Integrated **Carbonate Reservoir** Characterization, Applied **Reservoir Engineering** & Management, **Petroleum Reservoir** Management, **Reservoir Surveillance** & Management, Applied **Production Logging & Reservoir Monitoring**, 3D Seismic Attributes for **Reservoir Characterization**, **Reservoir Fluid** Characterization & Management, Integrated **Reservoir Analysis**, Structural **Geology**, **Geological** Interpretation, **Rock** Analysis, **Rock** Formation, Rock-cutting Data, **Wireline Data & Core Sampling** Analysis, **Subsurface Mapping**, **Geological & Hydrocarbon** Evaluation, **Geostatistical Modeling** Techniques, **3D Geological** Property Modelling and **PETREL** Software. Further, he is also well-versed in **H_2S**, **Sea Survival**, **Helicopter** under Water Emergency, **Process Plant** Shutdown, Turnaround & Troubleshooting, **Process Equipment**, **Mechanical Integrity**, **Maintenance** Management, **Reliability** Management, **Reliability** Best Practices, **Maintenance Strategies**, **Rotating Equipment** Failure Analysis, **Reliability** Optimization, Reliability Centered Maintenance (**RCM**), **Risk & Reliability** Engineering, **Pump Technology**, **Pump** Construction & Installation, **Pump** Performance and **Mechanical Shaft Seals**. He was the **Operation & Modeler Geologist** wherein he was responsible in monitoring and analyzing all surveillance programs for all reservoir performance and managing reservoir analysis techniques as well as analyzing rocks from the oil and gas wells and using engineering geological models.

During Mr. Hossam's career life, he has gained his thorough and practical experience through his various positions as the **Contractor Wellsite Geologist**, **Consultant Geologist**, **Mud Logger Geologist**, **Data Engineer**, **Pressure Engineer** and **Instructor/Trainer** for Petro-China, Petro-Canada, Suncor Energy Company, Baker Hugs, Geoservices and PetroServices, just to name a few.

Mr. Hossam has a **Bachelor's** degree in **Geology**. Further, he is a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership of Management** (**ILM**) and has further delivered numerous trainings, seminars, conferences and workshops globally.

Course Program

The following program is planned for this course. However, the course instructor(s) 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	***PRE-TEST***
0830 – 0930	***Preparation for Drilling Operations*** *Oil Companies Drilling Contractors, Service*
0930 – 0945	*Break*
0945 – 1100	***Preparation for Drilling Operations (cont'd)*** *Oil Companies Drilling Contractors, Service (cont'd)*
1100 – 1215	***Preparation for Drilling Operations (cont'd)*** *Companies and Government Bodies*
1215 – 1230	*Break*
1230 – 1420	***Preparation for Drilling Operations (cont'd)*** *Basic Petroleum Geology*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 0930	***Types of Drilling*** *Land Rig*
0930 – 0945	*Break*
0945 – 1100	***Types of Drilling (cont'd)*** *Fixed Platforms*
1100 – 1215	***Types of Drilling (cont'd)*** *Tension Leg Platforms*
1215 – 1230	*Break*
1230 – 1420	***Types of Drilling (cont'd)*** *Semi Submersible Rigs*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 – 0930	***Types of Drilling (cont'd)*** *Jack Up Drilling Rigs*
0930 – 0945	*Break*
0945 – 1100	***Types of Drilling (cont'd)*** *Drill Ships and Barges*
1100 – 1215	***Rig Equipment*** *Hoisting System*
1215 – 1230	*Break*
1230 – 1420	***Rig Equipment (cont'd)*** *Rotating System*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4

0730 – 0930	***Rig Equipment (cont'd)*** *Power System*
0930 – 0945	*Break*
0945 – 1100	***Rig Equipment (cont'd)*** *Blowout Prevention System*
1100 – 1215	***Rig Equipment (cont'd)*** *Circulation System*
1215 – 1230	*Break*
1230 – 1420	***Auxiliary Equipment Systems*** *Drilling Operation*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5

0730 – 0830	***Auxiliary Equipment Systems (cont'd)*** *Surface Hole Drilling Operations*
0830 - 0930	***Auxiliary Equipment Systems (cont'd)*** *Tripping Operations*
0930 – 0945	*Break*
0945 – 1100	***Auxiliary Equipment Systems (cont'd)*** *Running and Cementing Casing*
1100 – 1215	***Auxiliary Equipment Systems (cont'd)*** *Coring, Logging, Testing and Fishing*
1215 – 1230	*Break*
1230 – 1345	***Auxiliary Equipment Systems (cont'd)*** *Abandonment*
1345 – 1400	***Course Conclusion***
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Certificates*
1430	*Lunch & End of Course*

Practical Sessions

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

Course Coordinator

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