

# 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



DE0611(KP4)

#### **Course Duration/Credits**

Five days/3.0 CEUs/30 PDHs

### **Course Description**





This practical and highly-interactive course includes and exercises case studies 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 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.

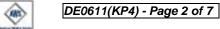
















#### **Course Certificate(s)**

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.



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.

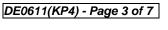














#### **Course Instructor(s)**

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 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** 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 Characterization. Applied Carbonate Reservoir Reservoir Engineering Petroleum Reservoir Management, Reservoir Surveillance Management, 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 H2S, 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.

















<u>Course Program</u>

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

Duy I	
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

Dav 2

Duy L	
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

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

### Dav 5

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





















<u>Practical Sessions</u>
This practical and highly-interactive course includes real-life case studies and exercises:-



## **Course Coordinator**

Reem Dergham, Tel: +974 4423 1327, Email: reem@haward.org











