

COURSE OVERVIEW DE0611(KP4)

Basic Drilling

Course Title

Basic Drilling

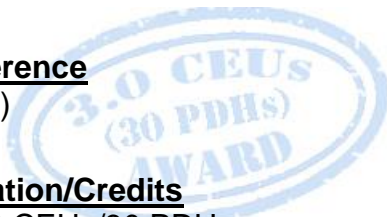
Course Reference

DE0611(KP4)

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

Course Date/Venue



Session(s)	Date	Venue
1	April 21-25, 2024	Oryx Meeting Room, DoubleTree By Hilton Doha-Al Sadd, Doha, Qatar
2	May 19-23, 2024	
3	October 06-10, 2024	
4	November 24-28, 2024	

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 + **VAT**. 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: -


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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.

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. Konstantin Zorbalas, MSc, BSc, is a **Senior Petroleum Engineer & Well Completions Specialist** with over **25 years** of **offshore and onshore** experience in the **Oil & Gas, Refinery & Petrochemical** industries. His wide expertise includes **Workovers & Completions, Petroleum Risk & Decision Analysis, Acidizing Application in Sandstone & Carbonate, Well Testing Analysis, Stimulation Operations, Reserves Evaluation, Reservoir Fluid Properties, Reservoir Engineering & Simulation Studies, Reservoir Monitoring, Artificial Lift Design, Gas Operations, Workover/Remedial Operations & Heavy Oil Technology, Applied Water Technology, Oil & Gas Production, X-mas Tree & Wellhead Operations & Testing, Artificial Lift Systems (Gas Lift, ESP, and Rod Pumping), Well Cementing, Production Optimization, Well Completion Design, Sand Control, PLT Correlation, Slickline Operations, Acid Stimulation, Well testing, Production Logging, Project Evaluation & Economic Analysis**. Further, he is actively involved in **Project Management** with special emphasis in production technology and field optimization, performing conceptual studies, economic analysis with risk assessment and field development planning. He is currently the **Senior Petroleum Engineer & Consultant of National Oil Company** wherein he is involved in the mega-mature fields in the Arabian Gulf, predominantly carbonate reservoirs; designing the acid stimulation treatments with post-drilling rigless operations; utilizing CT with tractors and DTS systems; and he is responsible for gas production and preparing for reservoir engineering and simulation studies, well testing activities, field and reservoir monitoring, production logging and optimization and well completion design.

During his career life, Mr. Zorbalas worked as a **Senior Production Engineer, Well Completion Specialist, Production Manager, Project Manager, Technical Manager, Technical Supervisor & Contracts Manager, Production Engineer, Production Supervisor, Production Technologist, Technical Specialist, Business Development Analyst, Field Production Engineer and Field Engineer**. He worked for many **world-class oil/gas companies** such as **ZADCO, ADMA-OPCO, Oilfield International Ltd, Burlington Resources** (later acquired by **Conoco Phillips**), **MOBIL E&P, Saudi Aramco, Pluspetrol E&P SA, Wintershall, Taylor Energy, Schlumberger, Rowan Drilling and Yukos EP** where he was in-charge of the **design and technical analysis** of a gas plant with capacity **1.8 billion m3/yr gas**. His achievements include **boosting oil production 17.2% per year** since 1999 using **ESP and Gas Lift systems**.

Mr. Zorbalas has **Master and Bachelor** degrees in **Petroleum Engineering** from the **Mississippi State University, USA**. Further, he is an **SPE Certified Petroleum Engineer, Certified Instructor/Trainer, a Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)**, an active member of the **Society of Petroleum Engineers (SPE)** and has numerous scientific and technical publications and delivered innumerable training courses, seminars and workshops worldwide.

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	<i>Registration & Coffee</i>
0800 – 0815	<i>Welcome & Introduction</i>
0815 – 0830	PRE-TEST
0830 – 0930	Preparation for Drilling Operations <i>Oil Companies Drilling Contractors, Service</i>
0930 – 0945	<i>Break</i>
0945 – 1100	Preparation for Drilling Operations (cont'd) <i>Oil Companies Drilling Contractors, Service (cont'd)</i>
1100 – 1215	Preparation for Drilling Operations (cont'd) <i>Companies and Government Bodies</i>
1215 – 1230	<i>Break</i>
1230 – 1420	Preparation for Drilling Operations (cont'd) <i>Basic Petroleum Geology</i>
1420 – 1430	Recap
1430	<i>Lunch & End of Day One</i>

Day 2

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

Day 3

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

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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