COURSE OVERVIEW DE0985
Introduction to Drilling

Course Title
Introduction Drilling

Course Date/Venue
Session 1: May 04-08, 2025/Meeting Plus 8, City Centre Rotana Doha Hotel, Doha, Qatar
Session 2: September 28 - October 02, 2025/Meeting Plus 8, City Centre Rotana Doha Hotel, Doha, Qatar

Course Reference
DE0985

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.

The course provides a non-technical overview of the phases, operations and terminology used in the drilling and completion of oil and gas well. It is intended for non-drilling personnel who work in the offshore drilling industry this includes marine and logistics personnel commercial, HSE, etc. No prior experience of knowledge of drilling operations is required.

The course will provide participants with a better understanding of issues faced in all aspects of drilling operations with a particular focus on the unique aspects of offshore operations.

This course is designed to provide participants with a detailed and up-to-date overview of drilling for non-drilling engineers. It covers the drilling techniques within the oil/gas industry and identify the various drilling platforms, equipment's, mud, casing and cementing; the different operations involved in well drilling and illustrate drilling of a deviated or horizontal well; the drilling problems such as stuck pipe, kick, lost circulation, fishing etc and describe the managed pressure drilling techniques; the data collected during drilling operations such as drill cuttings and mud logging.

Course Objectives

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

- Gain a good knowledge on drilling techniques within the oil/gas industry and identify the various drilling platforms, equipments, mud, casing and cementing
- Explore the different operations involved in well drilling and illustrate drilling of a deviated or horizontal well
- Solve some drilling problems such as stuck pipe, kick, lost circulation, fishing etc and describe the managed pressure drilling techniques
- Evaluate data collected during drilling operations such as drill cuttings and mud logging

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 is an ideal course for anyone who needs a working understanding of drilling techniques and their applications. It has been designed for those with no previous training in drilling, such as supervisors, technicians, non-technical support staff, engineers, geologists, production and completion engineers & supervisors.

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 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 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.

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 **Drilling Techniques**, **Hole Cleaning**, **Sloughing**, **Nozzle Selection**, **BOP Equipment**, **Seepage Losses Control**, **Well Completion Design**, **Well testing**, **Well Testing Analysis**, **Well Cementing**, **Oil** & **Gas**, **Refinery** & **Petrochemical** industries. His wide expertise includes **Workovers & Completions**, **Petroleum Risk & Decision Analysis**, **Acidizing Application** in **Sandstone** & **Carbonate**, **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**), **Production Optimization**, **Sand Control**, **PLT Correlation**, **Slickline Operations**, **Acid Stimulation**, **Production Logging**, **Project Evaluation** & **Economic Analysis**. Further, he is actively involved in **Project Management** with special emphasis in production technology and field optimization, 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 – 0745	*Registration & Coffee*
0745 – 0800	*Welcome & Introduction*
0800 – 0815	***PRE-TEST***
0815 – 1015	***Drilling & Oil/Gas Industry*** *Introduction • Source Beds • Migration*
1015 – 1030	*Break*
1030 – 1215	***Drilling & Oil/Gas Industry (cont'd)*** *Traps • Geophysical Surveys • Seismic Surveys*
1215 – 1230	*Break*
1230 – 1330	***Drilling & Oil/Gas Industry (cont'd)*** *Strat Tests • Logging • Correlation*
1330 – 1430	***Platform Types*** *Submersible Rig • Jackup Rig*
1430	*Lunch & End of Day One*

Day 2

0730 – 0930	***Platform Types (cont'd)*** *Semi-Submersible Rig • Drilling Ship*
0930 – 0945	*Break*
0945 – 1215	***Drilling Equipment*** *Hoisting System • Rotation system • Circulation System*
1215 – 1230	*Break*
1230 – 1330	***Drilling Equipment (cont'd)*** *Safety System • Subsea Equipment • Pipe Handling Equipment*
1330 – 1430	***Drilling Mud*** *Purposes of Drilling Mud*
1430	*Lunch & End of Day Two*

Day 3

0730 – 0930	***Drilling Mud (cont'd)*** *Different types of Drilling Mud*
0930 – 0945	*Break*
0945 – 1215	***Casing and Cementing*** *Casing*
1215 – 1230	*Break*
1230 – 1330	***Casing and Cementing (cont'd)*** *Cementing the Casing*
1330 – 1430	***Drilling an Exploration Well*** *Activities before Spudding*
1430	*Lunch & End of Day Three*

Day 4

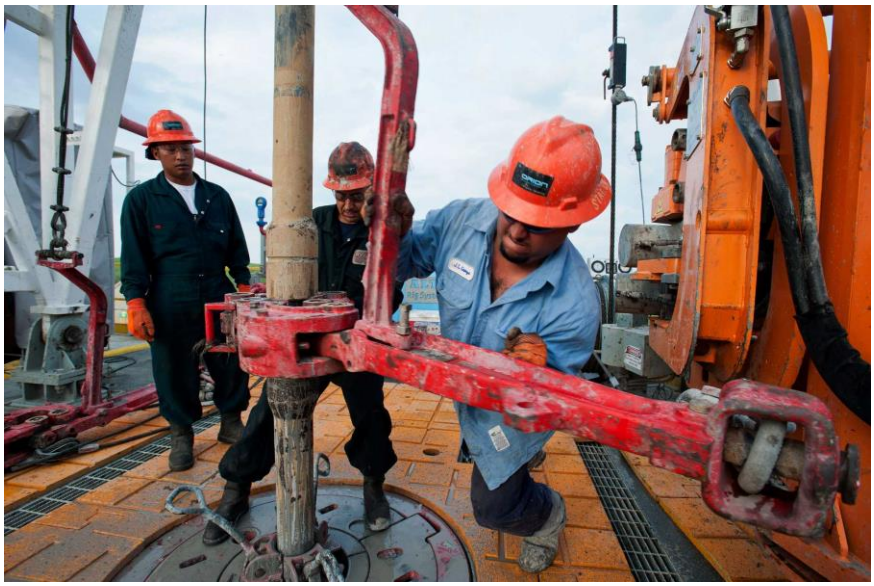
0730 – 0900	***Drilling an Exploration Well (cont'd)*** *Drilling the Well*
0900 – 0915	*Break*
0915 – 1100	***Drilling an Exploration Well (cont'd)*** *Abandoning the Well*
1100 – 1230	***Drilling of a Deviated or Horizontal Well***
1230 – 1245	*Break*
1245 – 1430	***Drilling Problems*** *Stuck Pipe • Kick*
1430	*Lunch & End of Day Four*

Day 5

0730 – 0930	***Drilling Problems (cont'd)*** *Lost Circulation • Fishing*
0930 – 0945	*Break*
0945 – 1115	***Managed Pressure Drilling (MPD)***
1115 – 1215	***Data Collected during Drilling*** *Drill Cuttings*
1215 – 1230	*Break*
1230 – 1400	***Data Collected during Drilling (cont'd)*** *Mud Logging*
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course 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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