

COURSE OVERVIEW DE0331

Blowout Preventer (BOP) Control Systems-Choke Manifold

Course Title

Blowout Preventer (BOP) Control Systems-Choke Manifold

Course Date/Venue

Session 1: April 27-May 01, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

Session 2: September 29- October 03, 2025/ Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE



Course Reference

DE0331



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 blowout prevention and well control. It covers the well kicks and blowouts and discuss the various other recommendations; the different drilling programmes and conditions under which casing will be set above a reservoir; the various procedures in preparation for drilling equipment selection and staff training and learn the importance of emergency material stocks; and the principles of detection of abnormally pressured zones and explain the various definition and origin of abnormal pressures.

During this interactive course, participants will learn the different kick control procedures including kick with the bit on bottom and kick control with the bit off bottom; the various driller's procedures and well control work sheets along with the driller's procedures; and the several special procedures for floating drilling vessels including the numerous problems of drilling from a floating vessel.

Course Objectives

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

- Apply and gain an in-depth knowledge on blowout prevention and well control
- Explain and recognize indications of well kicks and blowouts and discuss the various other recommendations
- List the different drilling programmes and conditions under which casing will be set above a reservoir
- Outline the various procedures in preparation for drilling equipment selection and staff training and learn the importance of emergency material stocks
- Employ the principles of detection of abnormally pressured zones and explain the various definition and origin of abnormal pressures
- Identify the different kick control procedures including kick with the bit on bottom and kick control with the bit off bottom
- Familiarize with the various driller's procedures and well control work sheets along with the driller's procedures
- Recognize the several special procedures for floating drilling vessels including the numerous problems of drilling from a floating vessel

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 intended for derrickhand, oilfield support personnel, trainee drillers and drillers.

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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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.

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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.

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. Hesham Abdou, PhD, MSc, BSc, is a **Senior Drilling & Petroleum Engineer** with over **35 years** of integrated industrial and academic experience as a **University Professor**. His specialization widely covers in the areas of **Drilling & Completion Technology, Directional Drilling, Horizontal & Sidetracking, Drilling Operation Management, Drilling & Production Equipment, ERD Drilling & Stuck Pipe Prevention, Natural & Artificial Flow Well Completion, Well Testing Procedures & Evaluation, Well Performance, Coiled Tubing Technology, Oil Recovery Methods Enhancement, Well Integrity Management, Well Casing & Cementing, Acid Gas Removal, Heavy Oil Production & Treatment Techniques, Crude Oil Testing & Water Analysis, Crude Oil & Water Sampling Procedures, Equipment Handling Procedures, Crude & Vacuum Process Technology, Gas Conditioning & Processing, Cooling Towers Operation & Troubleshooting, Sucker Rod Pumping, ESP & Gas Lift, PCP & Jet Pump, Pigging Operations, Electric Submersible Pumps (ESP), Progressive Cavity Pumps (PCP), Water Flooding, Water Lift Pumps Troubleshooting, Water System Design & Installation, Water Networks Design Procedures, Water Pumping Process, Pipelines, Pumps, Turbines, Heat Exchangers, Separators, Heaters, Compressors, Storage Tanks, Valves Selection, Compressors, Tank & Tank Farms Operations & Performance, Oil & Gas Transportation, Oil & Gas Production Strategies, Artificial Lift Methods, Piping & Pumping Operations, Oil & Water Source Wells Restoration, Pump Performance Monitoring, Rotor Bearing Modelling, Hydraulic Repairs & Cylinders, Root Cause Analysis, Vibration & Condition Monitoring, Piping Stress Analysis, Amine Gas Sweetening & Sulfur Recovery, Heat & Mass Transfer and Fluid Mechanics.**

During his career life, Dr. Hesham held significant positions and dedication as the **General Manager, Petroleum Engineering Assistant General Manager, Workover Assistant General Manager, Workover Department Manager, Artificial Section Head, Oil & Gas Production Engineer and Senior Instructor/Lecturer** from various companies and universities such as the Cairo University, Helwan University, British University in Egypt, Banha University and Agiba Petroleum Company.

Dr. Hesham has a **PhD** and **Master** degree in **Mechanical Power Engineering** and a **Bachelor** degree in **Petroleum Engineering**. Further, he is a **Certified Instructor/Trainer** and a **Peer Reviewer**. Dr. Hesham is a member of Egyptian Engineering Syndicate and the Society of Petroleum Engineering. Moreover, he has published technical papers and journals and has delivered numerous trainings, workshops, courses, seminars and conferences internationally.

Course Fee

US\$ 8,000 per Delegate + **VAT**. This rate includes H-STK® (Howard Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

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	Reasons for and Indications of Well Kicks and Blowouts Reasons for a Well Kick • Indications of a Well Kick • Recommendations
0930 – 0945	Break
0945 – 1100	The Drilling Programme Technical Details • Selection of System Working Pressure • Pressure Testing Programme
1100 – 1215	The Drilling Programme (cont'd) Conditions Under which Casing will be Set Above a Reservoir • Protection of Equipment while Drilling • Abandonment Programme
1215 – 1230	Break
1230 – 1420	Preparation for Drilling Equipment Selection and Staff Training Kick Detection Equipment • Kick Control Equipment
1420 -1430	Recap
1430	Lunch & End of Day One

Day 2

0730 – 0930	Preparation for Drilling Equipment Selection and Staff Training (cont'd) Emergency Material Stocks
0930 – 0945	Break
0945 – 1100	Preparation for Drilling Equipment Selection and Staff Training (cont'd) Staff Training
1100 – 1215	The Detection of Abnormally Pressured Zones Definition and Origin of Abnormal Pressures
1215 – 1230	Break
1230 – 1420	The Detection of Abnormally Pressured Zones (cont'd) The Detection of Abnormal Pressures
1420 -1430	Recap
1430	Lunch & End of Day Two

Day 3

0730 – 0930	Kick Control Procedures Kick Control with the Bit on Bottom • Kick Control with the Bit Off Bottom
0930 – 0945	Break
0945 – 1100	Kick Control Procedures Kick Control with the Bit on Bottom • Kick Control with the Bit Off Bottom
1100 – 1215	Driller's Procedures and Well Control Work Sheets Important Notes
1215 – 1230	Break
1230 – 1420	Driller's Procedures and Well Control Work Sheets (cont'd) Driller's Procedures
1420 -1430	Recap
1430	Lunch & End of Day Three

Day 4

0730 – 0930	Driller's Procedures and Well Control Work Sheets (cont'd) Notes on the Driller's Procedures
0930 – 0945	Break
0945 – 1100	Driller's Procedures and Well Control Work Sheets (cont'd) Well Control Work Sheet and Pumping Pressure Plot
1100 – 1215	Driller's Procedures and Well Control Work Sheets (cont'd) Remarks on the Work Sheet
1215 – 1230	Break
1230 – 1420	Driller's Procedures and Well Control Work Sheets (cont'd) Examples
1420 -1430	Recap
1430	Lunch & End of Day Four

Day 5

0730 – 0930	Special Procedures for Floating Drilling Vessels The Problems of Drilling from a Floating Vessel
0930 – 0945	Break
0945 – 1100	Special Procedures for Floating Drilling Vessels (cont'd) The Problems of Drilling from a Floating Vessel (cont'd)
1100 – 1215	Special Procedures for Floating Drilling Vessels (cont'd) Well Control Procedures for Floating Drilling Vessels
1215 – 1230	Break
1230 – 1345	Special Procedures for Floating Drilling Vessels (cont'd) Well Control Procedures for Floating Drilling Vessels (cont'd)
1345 -1400	Course Conclusion
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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