

## **COURSE OVERVIEW DE0419-4D** Wellhead & Completion Equipment

(24 PDHs)

**Course Title** 

Wellhead & Completion Equipment

Course Reference

DF0419-4D

Course Duration/Credits

Four days/2.4 CEUs/24 PDHs



## Course Date/Venue

Session(s)	Date	Venue
1	January 08-11, 2024	Business Center, Concorde Hotel Doha, Doha Qatar
2	April 22-25, 2024	Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE
3	July 15-18, 2024	Ajman Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
4	October 14-17, 2024	Jubail Hall, Signature Al Khobar Hotel, Al Khobar, KSA

Course Description



This practical and highly-interactive course includes reallife 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 wellhead and completion equipment. It covers the components and types of wellheads, CHH/THS/Tubing hangers and suspension systems; the wellhead connections, wellhead selection criteria, BPV, TWCV, valve removal plugs, running tools, testing tools, lubricator and etc.; the components of Xmas trees and valves; the various types of Xmas trees, oil wells, gas wells and dual completions; and the completion string components, packer systems, sliding sleeves, side pocket mandrels, landing nipples and SSSV and other critical components.



During this interactive course, participants will learn the fundamentals of artificial lift types, ESP pumps, surface components, gas lift completions, design principles, rod pumps, PCP pumps and jet pumps; the intelligent completion string components, ICD's, ICV's and premium port sleeves; the multi-lateral completions, completions for sand control completions for multi-stage fracturing operations and operations: the multi-lateral completions. MLT classifications and MRC well completions; the completions for sand control operations and completions with gravel pack for open-hole and cased-hole; the liners, stand-alone screens and expandable systems; the completions for multi-stage fracturing operations; and the types of open hole packer systems, sleeves and ball activated ports.

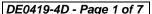






















## **Course Objectives**

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

- Apply and gain a good working knowledge on wellhead and completion equipment
- Identify the components and types of wellheads including CHH/THS/Tubing hangers and suspension systems
- Recognize wellhead connections, wellhead selection criteria, BPV, TWCV, valve removal plugs, running tools, testing tools, lubricator and etc.
- Describe the components of Xmas trees and valves as well as the various types of Xmas trees that include oil wells, gas wells and dual completions
- Identify completion string components comprising of packer systems, sliding sleeves, side pocket mandrels, landing nipples and SSSV including other critical components
- Discuss the fundamentals of artificial lift types covering ESP pumps, surface components, gas lift completions, design principles, rod pumps, PCP pumps and jet pumps
- Describe the intelligent completion string components that include ICD's, ICV's and premium port sleeves
- Differentiate multi-lateral completions, completions for sand control operations and completions for multi-stage fracturing operations
- Employ multi-lateral completions including MLT well classifications and MRC well completions
- Demonstrate completions for multi-stage fracturing operations and describe the types of open hole packer systems, sleeves and ball activated ports
- Carryout completions for sand control operations and completions with gravel pack for open-hole and cased-hole as well as identify liners, stand-alone screens and expandable systems

### 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**.

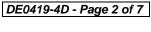
### Who Should Attend

This course provides an overview of all significant aspects and considerations of wellhead and completion equipment for drilling engineers, technologists, service personnel, and others involved directly or indirectly with the planning passing with wellhead and programming of completion in addition to related workover issues.



















## **Training Methodology**

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

30% Lectures

20% Workshops & Work Presentations

30% Case Studies & Practical Exercises

20% Software, Simulators & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

### **Course Fee**

Doha	<b>US\$ 7,500</b> per Delegate. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Dubai	<b>US\$ 6,500</b> per Delegate + <b>VAT</b> . This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day
Abu Dhabi	<b>US\$ 6,500</b> per Delegate + <b>VAT</b> . This rate includes H-STK <sup>®</sup> (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Al Khobar	<b>US\$ 6,500</b> per Delegate + <b>VAT</b> . 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 **2.4 CEUs** (Continuing Education Units) or **24 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. Hossam Mansour is a Senior Drilling & Petroleum Engineer with over 20 years of Offshore & Onshore experience within the Refinery, Petroleum and Oil & Gas industries. His expertise covers the areas of Well Production Control & Management, Drilling & Workover Operations, Offshore Drilling & Testing, Rigging, Drilling & Completion Fluids, Cementing, Tubular Handling, Directional & Horizontal Drilling, Extended Reach Drilling (ERD),

HPHT, Well Stimulation, Well Cleaning, Well Testing Analysis & Design, Well Control, Well Reconciliation, Drilling Water Wells Design & Operations, Coiled Tubing Perforating Operations, Gas Lift Operations, ESP Design & Operation, Casing, Tubing, Well Heads, Drill Stem Test (DST) Operations, Offshore Drilling and Drill String. Further, he is also a well-versed in Workover Rigs, Open & Cased Hole Logging, Wire Line Perforations, FRAC Design & Operations, Log Interpretation, Stuck Pipe Prevention, Fishing Operations, Tools & BHA Design and Rig & Rigless Completion Operations. He is currently the Operations General Manager of IPR Energy Group-International Oilfield Services, where-in he is managing and responsible for all drilling and work-over activities, oil production and technical and engineering issues of the company.

During his career life, Mr. Mansour held significant positions such as the **Drilling Foreman**, **Drilling & Work Over Superintendent**, **Senior Drilling Supervisor**, **Acting Drilling Engineering Manager**, **Drilling Superintendent**, **Senior Drilling Engineer**, **Drilling & Work Over Supervisor**, **Senior Completion Engineer**, **Night Drilling Supervisor** and **Cement Operator** for numerous international companies like the **Saudi ARAMCO**, **PetroSannan-JV NaftoGaz**, **PetroShahd**, **ENAP Sipetrol Egypt Branch- JV of PetroShahd**, **NAFTOGAZ**, **Romanna (Gas & Condensate- HP)** concession (**NW Sinai area**), **Apache**, **SUCO** (Suez Oil Company — JV of RWE Deal) and **Halliburton**.

Mr. Mansour has a **Bachelor** degree in **Petroleum Engineering** with the major in **Drilling**, **Production** & **Reservoir**. Further, he is a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**) has completed innumerable technical courses, related sciences and studies as well as presented numerous technical trainings 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

Day I	
0730 - 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	PRE-TEST
0830 - 0900	Introduction to Wellheads
0900 - 0930	Components of Wellheads
0930 - 0945	Break
0945 - 1015	Types of Wellheads (Spools, Compact, etc.)
1015 - 1045	CHH/THS/Tubing Hangers
1045 - 1115	Wellheads Suspension Systems
1115 - 1145	Wellhead Connections (Seals, Clamps, Flanges, etc.)
1145 – 1215	Wellhead Selection Criteria
1215 - 1230	Break
1245 - 1315	BPV, TWCV, Valve Removal Plugs, etc.
1315 - 1345	Running Tools, Testing Tools, Lubricator, etc.
1345 - 1420	Xmas Trees
1420 - 1430	Recap
1430	Lunch & End of Day One

Day 2

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	Day 3	
073	0730 – 0800	ESP Pumps & Surface Components, Gas Lift Completion & Design
	0730 - 0800	Principles
	0800 - 0900	Rod Pumps, PCP Pumps & Jet Pumps
	0900 - 0930	Intelligent Completion String Components
	0930 - 0945	Break
	0945 - 1030	ICD's
	1030 – 1100	ICV's
	1100 – 1200	Premium Port Sleeves
	1200 – 1230	Manara Project Example & Case Study
	1230 - 1245	Break



















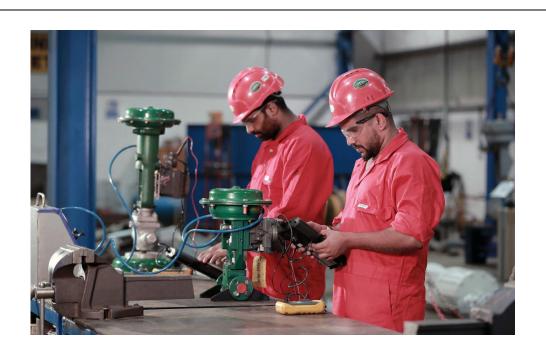
1245 - 1315	Multi-lateral Completions
1315 - 1345	MLT Well Classifications
1345 - 1420	MRC Well Completions
1420 - 1430	Recap
1430	Lunch & End of Day Three

## Day 4

Day +	
0730 - 0815	Completions for Multi-stage Fracturing Operations
0815 - 0815	Types of Open Hole Packer Systems
0900 - 0930	Sleeves
0930 - 0945	Break
0945 - 1015	Ball Activated Ports
1015 - 1045	Completions for Sand Control Operations
1045 - 1115	Liners
1115 – 1200	Stand-alone Screens
1200 - 1230	Expandable Systems
1230 - 1245	Break
1245 - 1345	Completions with Gravel Pack for Open-hole & Cased-hole
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:-



<u>Course Coordinator</u>
Jaryl Castillo, Tel: +974 4423 1327, Email: <u>jaryl@haward.org</u>















