COURSE OVERVIEW DE0118
Workovers & Completions

Course Title
Workovers & Completions

Course Date/Venue
Please see page 4

Course Reference
DE0118

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.

Once a well has been drilled to total depth, it must be decided whether it can be made to produce oil and gas in profitable amounts. Perhaps only one out of six wells drilled can ever produce enough petroleum to recover costs and offer profit. Even then, that one well must be completed properly. Recompletion costs are high, and a bad completion may ruin a well. Completion must be done right the first time.

During the field life cycle, some reservoirs undergo some physical and chemical changes. This leads to loss of revenue as the wells are no longer operating at their optimal conditions. Hence, workover and well intervention practices are required to safely and efficiently restore the wells back to production.

This course is designed to provide participants with up-to-date overview of completions and workovers. It covers the types and objective of completion operations according to reservoir and production data; the natural flow and artificial lift including single, dual gas lift, ESP well completion; the completion equipment and completion fluid, pressure test function; the tubing specification as thread, grade, weight and material; and the use of API designing and material selection for sweet and sour gas.

Further, the course will also discuss the equipment and tender document; the ability to design, plan, execute open hole and cased hole completion and prepare well program; the logistic and service companies; the ability to run completion string on site according to sequence of well procedure and HSE; the operational steps in the completion program; the main factors influencing completion design; the head valves types and applications; the overall approach to a well's flow capacity and recognize major types of completion configurations; the main phases in completion and considerations, drilling and casing the pay zone; and the cement job, perforating and treating the pay zone.

During this interactive course, participants will learn the special case of horizontal wells, production wellhead and production string or tubing; the packers, downhole equipment, subsurface safety valves, running procedure, artificial lift pumping and gas lift; artificial lift process and completion management artificial lift operations in open and cased holes; the main types of well servicing and workover, light well servicing, heavy servicing and workover operations on live wells and servicing and workover operations on killed wells; the deviated, multiple zone, subsea, horizontal, multilateral and HPHT completion; and the well stimulation, hydraulic fracturing and acid stimulation.

Course Objectives

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

- Apply and gain an in-depth knowledge on completions and workovers
- Demonstrate operational knowledge and understanding on the types and objective of completion operations according to reservoir and production data
- Demonstrate operational knowledge and understanding of natural flow and artificial lift including single, dual gas lift, ESP well completion
- Demonstrate operational knowledge and understanding of completion equipment and completion fluid, pressure test function
- Demonstrate operational knowledge and understanding of tubing specification as thread, grade, weight and material
- Ability to use API designing and material selection for sweet and sour gas
- Ability to order the equipment and evaluate tender document
- Ability to design, plan, execute open hole and cased hole completion and prepare well program
- Coordinate with logistic and service companies
- Ability to run completion string on site according to sequence of well procedure and HSE
- Optimize operational steps in the completion program
- Identify main factors influencing completion design as well as well head valves types and applications
- Apply overall approach to a well's flow capacity and recognize major types of completion configurations
- Determine main phases in completion and considerations, drilling and casing the pay zone

- Evaluate and restore the cement job as well as discuss perforating and treating the pay zone
- Analyze the special case of horizontal wells, production wellhead and production string or tubing
- Discuss packers, downhole equipment, subsurface safety valves, running procedure, artificial lift pumping and gas lift
- Choose an artificial lift process and apply completion management artificial lift operations in open and cased holes
- Identify the main types of well servicing and workover, light well servicing, heavy servicing and workover operations on live wells and servicing and workover operations on killed wells
- Discuss deviated, multiple zone, subsea, horizontal, multilateral and HPHT completion
- Illustrate well stimulation, hydraulic fracturing and acid stimulation

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 up-to-date knowledge and techniques on completions and workovers for WS engineers and foremen. Drilling, reservoir, well, production, completion and petroleum engineers, supervisors and geologists who need a practical understanding and appreciation of completion design will definitely benefit from this course.

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 Date/Venue

Session(s)	Date	Venue
1	April 05-09, 2026	Meeting Plus 9, City Centre Rotana, Doha, Qatar
2	May 31-June 04, 2026	Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE
3	July 26-30, 2026	Pierre Lotti Meeting Room, Movenpick Hotel Istanbul Golden Horn, Istanbul, Turkey
4	September 27-October 01, 2026	Meeting Plus 9, City Centre Rotana, Doha, Qatar
5	September 28-October 02, 2026	Ruben Boardroom, The Rubens at The Palace, Buckingham Palace Road, London, United Kingdom
6	November 23-27, 2026	Salon Expo, NH Hotel Plaza de Armas, Seville, Spain
7	January 24-28, 2027	Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE
8	March 21-25, 2027	Pierre Lotti Meeting Room, Movenpick Hotel Istanbul Golden Horn, Istanbul, Turkey

Course Fee

Doha	**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
Dubai	**US$ 8,000** per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Istanbul	**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.
London	**US$ 8,800** per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Seville	**US$ 8,800** per Delegate + **VAT**. 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

Haward's certificates are accredited by the following international accreditation organizations: -

- British Accreditation Council (BAC)

  Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). 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.

- 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.

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. Chris Kapetan, PhD, MSc, BSc, is a **Senior Drilling & Process Engineer** with over **30 years** of international experience within the **onshore** and **offshore oil and gas** industry. His wide experience covers **Asset Operational Integrity** for Operations, **Process Plant** Operations, Control & Troubleshooting, **Plant Shutdown** System & **Flare** Systems, **Heat Exchangers & Fired Heaters** Operation & Troubleshooting, **Gas Conditioning**, Treatment & Processing Technology, **Production Operations** in the Oil & Gas Fields & **Surface Facilities**, **LNG Process**, **Applied Process** Engineering Elements, **Production Control** Systems, Well Commissioning & Crude Oil Specifications, **Hydrogenation** & **Gasification** Technology, **Physical** & **Chemical** Solvents, Sulfide Stress Cracking (**SSC**), Hydrogen Induced Cracking (**HIC**), **Corrosion**, Steels & Alloys, **Fertilizer Manufacturing** Process Technology, **Fertilizer Storage** Management (Ammonia & Urea), **Process Calculation Methods**, **Directional Planning**, **Completion Design**, **Directional Surveying**, **Drilling Fluids**, **Matrix Acidizing**, **Hydraulic Fracturing**, **Well Completion** Design & Operation, **Cased Hole Formation Evaluation**, **Cased Hole Logs**, **Production** Management, **Drilling Operations**, **Directional Drilling**, **Gas Lift** Operations, **Petroleum Business**, **Petroleum Economics**, **Gas Lift Valve** Changing & Installation, **Horizontal & Multilateral Wells**, **Well Stimulation** & **Control** and **Workover Planning**, **Completions** & **Workover**, **Rig** Sizing, **Hole Cleaning** & **Logging**, **Well Completion**, **Servicing** & **Work-Over** Operations, Practical **Reservoir** Engineering, **X-mas Tree & Wellhead** Operations, Maintenance & Testing, **Advanced Petrophysics/Interpretation** of **Well Composite**, **Construction Integrity** & **Completion**, **Coiled Tubing Technology**, **Corrosion Control**, **Wireline & Coil Tubing**, **Pipeline Pigging**, **Corrosion Monitoring**, **Cathodic** Protection, Root Cause Analysis (**RCA**), Root Cause Failure Analysis (**RCFA**), **Production Safety** and **Delusion of Asphalt**. Currently, he is the **Operations Manager** at **GEOTECH** and an independent **Drilling Operations Consultant** of various engineering services providers to the international clients as he offers his expertise in many areas of the **drilling discipline** and is well **recognized & respected** for his process and procedural expertise as well as ongoing participation, interest and experience in continuing to promote technology to producers around the world. Currently, he is the **Operations Consultant & the Technical Advisor** at **GEOTECH** and an independent **Drilling Operations Consultant** of various engineering services providers to the international clients as he offers his expertise in many areas of the **drilling & petroleum** discipline and is well **recognized & respected** for his process and procedural expertise as well as ongoing participation, interest and experience continuing to promote technology to producers around the world.

Throughout his long career life, Dr. Chris has worked for many international companies and has spent several years **managing** technically **complex wellbore interventions** in both **drilling** & **servicing**. He is a **well-regarded** for his **process** and **procedural expertise**. Further, he was the **Operations Manager** at **ETP Crude Oil Pipeline Services** where he was fully responsible for optimum operations of crude oil pipeline, **workover** and **directional drilling**, **drilling rigs** and equipment, drilling of various geothermal deep wells and **exploration wells**. Dr. Chris was the **Drilling** & **Workover Manager** & **Superintendent** for **Kavala Oil** wherein he was responsible for supervision of **drilling** operations and **offshore exploration**, quality control of performance of **rigs**, **coiled tubing**, **crude oil** transportation via pipeline and abandonment of **well** as per the API requirements. He had occupied various key positions as the **Drilling Operations Consultant**, **Site Manager**, **Branch Manager**, **Senior Drilling** & **Workover Manager** & **Engineer**, **Drilling** & **Workover Engineer**, **Process Engineer**, **Operations Consultant** and **Technical Advisor** in several petroleum companies responsible mainly on an **offshore** sour oil field (under water flood and gas lift) and a gas field. Further, Dr. Chris has been a **Professor** of the **Oil Technology College**.

Dr. Chris has **PhD** in **Reservoir Engineering** and a **Master's** degree in **Drilling & Production Engineering** from the **Petrol-Gaze Din Ploiesti University**. Further, he is a **Certified Surfaced BOP Stack Supervisor** of **IWCF**, a **Certified Instructor/Trainer**, a **Certified Trainer/Assessor/Internal Verifier** by the **Institute of Leadership & Management** (**ILM**) and has conducted numerous short courses, seminars and workshops and has published several technical books on **Production Logging**, **Safety Drilling Rigs** and **Oil Reservoir**.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the workshop 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 – 0900	***Types & Objective of Completion Operations According to Reservoir & Production Data***
0900 – 0930	***Natural Flow & Artificial Lift Including Single, Dual Gas Lift, ESP Well Completion***
0930 – 0945	*Break*
0945 – 1030	***Main Factors Influencing Completion Design***
1030 – 1100	***Well Head Valves Types & Applications***
1100 – 1145	***Overall Approach to a Well's Flow Capacity***
1145 – 1230	***Major Types of Completion Configurations***
1230 – 1245	*Break*
1245 – 1330	***Main Phases in Completion & Considerations***
1330 – 1420	***Completion Equipment & Completion Fluid, Pressure Test Function***
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 0830	***Drilling & Casing the Pay Zone***
0830 – 0930	***Evaluating & Restoring the Cement Job***
0930 – 0945	*Break*
0945 – 1030	***Perforating***
1030 – 1100	***Treating the Pay Zone***
1100 – 1145	***The Special Case of Horizontal Wells***
1145 – 1230	***The Production Wellhead***
1230 – 1245	*Break*
1245 – 1330	***The Production String or Tubing***
1330 – 1420	***Tubing Specification as Thread, Grade, Weight & Material***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 – 0830	***Packers***
0830 – 0930	***Downhole Equipment***
0930 – 0945	*Break*
0945 – 1030	***Subsurface Safety Valves***
1030 – 1100	***Running Procedure***
1100 – 1145	***Artificial Lift: Pumping***
1145 – 1230	***Gas Lift***
1230 – 1245	*Break*
1245 – 1330	***Choosing an Artificial Lift Process***
1330 – 1420	***Completion Management Artificial Lift Operations in Open & Cased Holes***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4

0730 – 0830	***Use API in Designing & Material Selection for Sweet & Sour Gas***
0830 – 0930	***Order the Equipment & Evaluate Tender Document***
0930 – 0945	*Break*
0945 – 1030	***Design, Plan, Execute Open Hole & Cased Hole Completion***
1030 – 1100	***Prepare Well Program***
1100 – 1145	***Coordinate with Logistic & Service Companies***
1145 – 1230	***Run Completion String on Site According to Sequence of Well Procedure & HSE***
1230 – 1245	*Break*
1245 – 1330	***Optimize Operational Steps in the Completion Program***
1330 – 1420	***Main Types of Well Servicing & Workover***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5

0730 – 0830	***Light Well Servicing & Workover Operations on Live Wells***
0830 – 0930	***Heavy Servicing & Workover Operations on Live Wells***
0930 – 0945	*Break*
0945 – 1030	***Servicing & Workover Operations on Killed Wells***
1030 – 1100	***Servicing & Workover Special Cases***
1100 – 1145	***Deviated, Multiple Zone, Subsea, Horizontal, Multilateral & HPHT Completion***
1145 – 1215	***Well Stimulation***
1215 – 1230	*Break*
1230 – 1300	***Hydraulic Fracturing***
1300 - 1345	***Acid Stimulation***
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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