COURSE OVERVIEW DE1067
Engineering Operations and Productivity

Course Title
Engineering Operations and Productivity

Course Date/Venue
Session 1: July 21-25, 2025/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
Session 2: September 07-11, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

Course Reference
DE1067

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 production engineering and operations. It covers the production system concepts, units and datums, reservoir fluid properties, PVT correlations and matching; the gas fluid properties using an EOS; the inflow and outflow performance concept, radial flow IPR and skin, holdup and slip, flow correlations and VLPs; and the pressure loss at surface, nodal analysis concepts, nodal analysis plot interpretation and artificial lift systems.

During this interactive course, participants will learn the gas lift key concepts, gas lift design and VLPs; the gas lift equipment and valve calculations; the gas lift diagnosis and ESP key concepts and performance curves; the ESP equipment, ESP design and sensitivities; the ESP operations, control and optimization, ESP diagnosis and runlife optimization; the PCP key concepts and performance curves; the PCP design and operation, artificial lift in unconventional reservoirs and production measurement; the production surveillance, production allocation, well integrity management and well intervention and sand control; the formation damage and stimulation methods; the production chemistry, flow assurance, surface production facilities and treatment; and the corrosion control and material selection.

Course Objectives

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

- Apply and gain an in-depth knowledge on production engineering and operations
- Discuss production system concepts, units and datums, reservoir fluid properties, PVT correlations and matching
- Identify gas fluid properties using an EOS as well as inflow and outflow performance concept, radial flow IPR and skin, holdup and slip, flow correlations and VLPs
- Recognize pressure loss at surface, nodal analysis concepts, nodal analysis plot interpretation and artificial lift systems
- Discuss gas lift key concepts and carryout gas lift design and VLPs, gas lift equipment and valve calculations and gas lift diagnosis
- Determine ESP key concepts and performance curves, ESP equipment, ESP design and sensitivities
- Carryout ESP operations, control and optimization, ESP diagnosis and runlife optimization
- Describe PCP key concepts and performance curves and apply PCP design and operation
- Discuss artificial lift in unconventional reservoirs and perform production measurement, production surveillance, production allocation, well integrity management and well intervention and sand control
- Employ formation damage and stimulation methods, production chemistry and flow assurance, surface production facilities and treatment, corrosion control and material selection

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 production engineering and operations for production, petroleum, facilities or process engineers or field operations staff involved in the planning, design and operation of oil and gas production facilities and fields.

Course Fee

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.

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: -

- 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.

- 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:

Mr. Samer Shukri, BSc, IWCF, is a **Senior Drilling & Petroleum Engineer** with over **25 years** of **offshore** and **onshore** experience in the **Oil** & **Gas**, **Refinery** & **Petrochemical** industries. His wide expertise includes **Workovers & Completions**, **Well Completion** Design & Operations, **Well Intervention**, **Well Life Cyle**, **Well Stimulation** & **Workover** Planning, **Workover** Practices, **Workover** Operations, **Well Integrity** System, **Well Control**, **Oil & Water Wells**, **Workover/Remedial** Operations & **Heavy Oil** Technology, Plug & Abandonment of **Oil & Gas Wells**, **Petroleum** Engineering, **Open Hole & Cased Hole Logs**, **Petroleum Risk & Decision** Analysis, **Well Testing** Analysis, **Stimulation** Operations, **Coiled Tubing** Operations, **Coiled Tubing Equipment**, **Rigless** Operations, **Reserves Evaluation**, **Reservoir Fluid** Properties, **Reservoir** Engineering & Simulation Studies, **Reservoir** Monitoring, **Geology & Reservoir** Engineering, **Artificial Lift Design**, **Gas** Operations, **Applied Water** Technology, **Oil & Gas Production**, **X-mas Tree** & **Wellhead** Operations & **Testing**, **Wellbore Design & Construction**, **Drilling Fluids & Solids Control**, **Drilling Fluids & Cementing** Operations, **Drilling Practices & Techniques**, **Well Control & Blow Out Prevention**, **Stuck Piping & Fishing** Operations, **Rig Equipment** Maintenance & Inspection, **Rigging & Lifting** Operations, **WellCAP** Driller, **WellCAP** Supervisor, **Artificial Lift** Systems (**Gas Lift**, **ESP** and **Rod Pumping**), **Well Cementing**, **Oil Field Cementing**, **Production Optimization**, **PLT** Correlation, **Slickline** Operations, **Well Testing**, **Production Logging**, **Wireline Logging**, **Wireline** Technology, **Wireline Fishing** Operations, **Project Evaluation** & **Economic Analysis**. Further, he is also well-versed in Marine Environment Protection, Maritime Professional Training, Operational Audit, Improvement, Planning & Management, Climate Change & Emissions Trading Services, International Trade & Shipping, **Fitness for Service-API 579**, **Refining Process & Petroleum** Products, **OSHA** (General Industry & Construction), **IOSH** (Managing Safely, Working Safely), **HSE** Standards & Procedures in the Oilfield, HSE Principles, Incident Prevention & Incidents, Working at Height, **First Aid**, **H2S** Awareness, Defensive Driving, Risk Assessment, Authorized Gas Tester (**AGT**), Confined Space Entry (**CSE**), Root Cause Analysis (**RCA**), Negotiation & Persuasion Skills, **ISO-9001** Quality Management System (**QMS**), ISO-14001 Environmental Management System (**EMS**), **ISO-45001** Occupational Health and Safety Management System (**OHSMS**), **ISO-17020** Conformity Assessment, ISO/TS-29001 Quality Management System, **IOS-50001**-Energy Management System (**EnMS**) and Basic Offshore Safety Induction & Emergency. Currently, he is actively involved in **Project Management** with special emphasis in **commissioning of new wells**, **completion design**, **well integrity** management, **production technology** and field optimization, performing conceptual studies, economic analysis with risk assessment and field development planning.

During his career life, Mr. Samer has gained his field experience through his various significant positions and dedication as the **Senior Production Engineer**, **Well Services Department Head**, **Senior Well Services Supervisor**, **Senior Well Integrity Engineer**, **Senior HSE Engineer**, **Well Services Supervisor**, **Drilling/Workover Supervisor**, **International oil & Gas Trainer**, **Leadership & Management Instructor** and **Senior Instructor/Trainer** from the various international companies such as the ADCO, Al Furat Petroleum Company (AFPC), Syrian Petroleum Company (SPC), Petrotech, Global Horizon-UK, HDTC, Petroleum Engineers Association, STC, Basra University and Velesto Drilling Academy, just to name a few.

Mr. Samer has **Bachelor's** degree in **Petroleum Engineering**. Further, he is an **Accredited IWCF Drilling & Well Intervention Instructor**, a **Certified Instructor/Trainer**, a **Certified Train-the-Trainer** and further delivered innumerable training courses, seminars, conferences and workshops worldwide.

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 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 – 0900	***Introduction to Production Operations***
0900 – 0930	***Production System Concepts***
0930 – 0945	*Break*
0945 – 1015	***Units & Datums***
1015 – 1045	***Reservoir Fluid Properties Overview***
1045 – 1115	***PVT Correlations & Matching***
1115 – 1215	***Gas Fluid Properties Using an EOS***
1215 – 1230	*Break*
1230 – 1420	***Inflow Performance Concepts***
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 0830	***Radial Flow IPR & Skin***
0830 – 0930	***Outflow Performance Concepts***
0930 – 0945	*Break*
0945 – 1030	***Holdup & Slip***
1030 – 1115	***Flow Correlations & VLPs***
1115 – 1215	***Pressure Loss at Surface***
1215 – 1230	*Break*
1230 – 1400	***Nodal Analysis Concepts***
1400 – 1420	***Nodal Analysis Plot Interpretation***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 – 0845	***Introduction to Artificial Lift Systems***
0845 – 0930	***Gas Lift Key Concepts***

0930 – 0945	Break
0945 – 1100	**Gas Lift Design & VLPs**
1100 – 1215	**Gas Lift Equipment & Valve Calculations**
1215 – 1230	Break
1230 – 1300	**Gas Lift Diagnosis**
1300 – 1330	**ESP Key Concepts & Performance Curves**
1330 – 1400	**ESP Equipment Overview**
1400 – 1420	**ESP Design & Sensitivities**
1420 – 1430	**Recap**
1430	Lunch & End of Day Three

Day 4

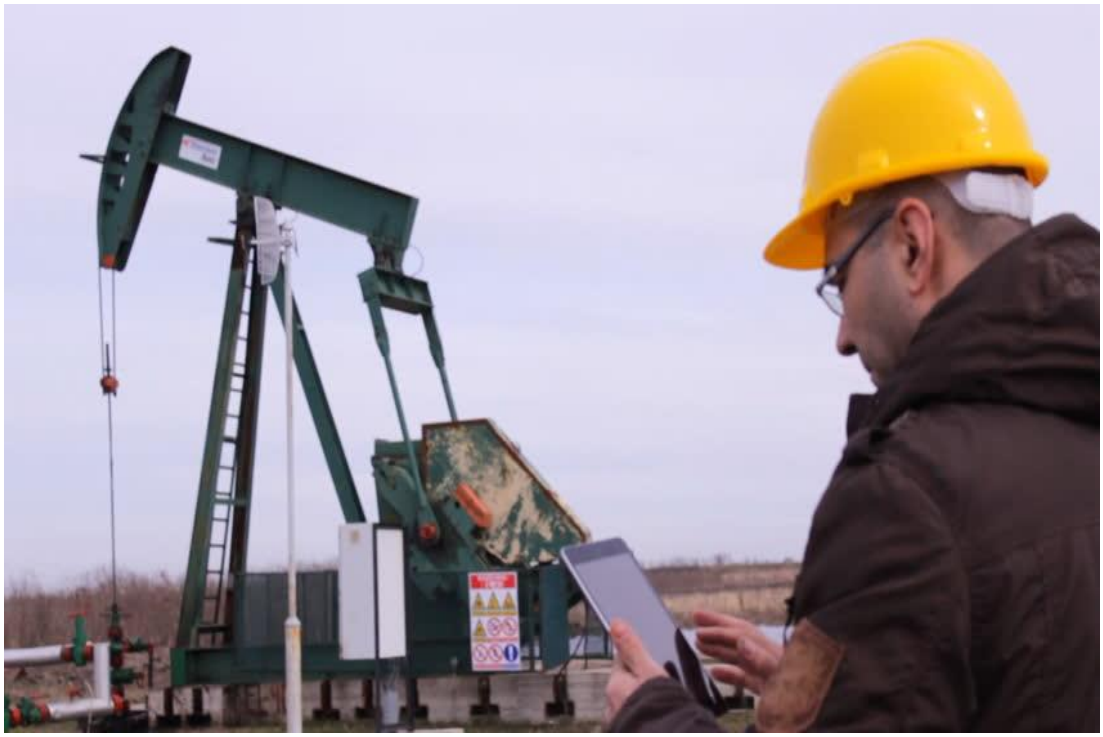
0730 – 0830	**ESP Operations, Control & Optimization**
0830 – 0930	**ESP Diagnosis & Runlife Optimization**
0930 – 0945	Break
0945 – 1015	**PCP Key Concepts & Performance Curves**
1015 – 1100	**PCP Design & Operation**
1100 – 1215	**Artificial Lift in Unconventional Reservoirs**
1215 – 1230	Break
1230 – 1315	**Production Measurement**
1315 – 1345	**Production Surveillance**
1345 – 1420	**Production Allocation**
1420 – 1430	**Recap**
1430	Lunch & End of Day Four

Day 5

0730 – 0830	**Well Integrity Management**
0830 – 0930	**Well Intervention & Sand Control**
0930 – 0945	Break
0945 – 1100	**Formation Damage & Stimulation Methods**
1100 – 1215	**Production Chemistry & Flow Assurance**
1215 – 1230	Break
1230 – 1300	**Surface Production Facilities & Treatment**
1300 – 1345	**Corrosion Control & Material Selection**
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

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org