COURSE OVERVIEW OE0071
Offshore Drilling Operations

Course Title
Offshore Drilling Operations

Course Date/Venue
Session 1: April 06-10, 2025/Meeting Plus 8, City Centre Rotana Doha Hotel, Doha, Qatar
Session 2: June 15-19, 2025/Meeting Plus 8, City Centre Rotana Doha Hotel, Doha, Qatar

Course Reference
OE0071

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 on Offshore Drilling Operations. It covers the types of offshore drilling rigs and the key components of a drilling rig and their functions; the common terms and jargon used in the industry and drilling reports and documentation; the different offshore drilling platforms and the criteria for selecting a drilling rig; the drilling processes and well lifecycle; the drilling rig components and equipment; and the drill bits and bottom hole assemblies, drilling fluids and circulation systems.

Further, the course will also discuss how to operate blowout preventers (BOPs) and the methods for maintaining well control; the offshore safety regulations and standards; identifying the risks and developing safety plans and emergency response procedures; the strategies for minimizing environmental impacts, waste management and pollution control; the techniques for handling and disposing drilling waste; the preparedness and response strategies for oil spills; and the proper personal protective equipment (PPE) and safety gear.

During this interactive course, participants will learn the enhanced oil recovery (EOR) techniques; the challenges and technologies for deepwater and ultra-deepwater drilling; the components and operation of subsea production systems; the installation and maintenance of subsea equipment; the use of automation and remote operations in offshore drilling; the drilling data management and analysis and the latest advancements and innovations; the future trends in offshore drilling technology; the offshore drilling project planning, budgeting, scheduling and resource allocation; the types of contracts and procurement strategies; managing contracts and relationships with suppliers; the software and tools for managing drilling projects; and the best practices for project management.

Course Objectives

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

- Apply and gain an in-depth knowledge on offshore drilling operations
- Recognize the types of offshore drilling rigs and the key components of a drilling rig and their functions
- Identify the common terms and jargon used in the industry and review drilling reports and documentation
- Discuss the different offshore drilling platforms and the criteria for selecting a drilling rig
- Illustrate drilling processes and well lifecycle as well as identify the drilling rig components and equipment
- Recognize drill bits and bottom hole assemblies, drilling fluids and circulation systems
- Operate blowout preventers (BOPs) and apply the methods for maintaining well control
- Apply drilling operation and procedure including directional drilling techniques
- Review offshore safety regulations and standards, identify and assess risks and develop safety plans and emergency response procedures
- Implement strategies for minimizing environmental impact, waste management and pollution control and techniques for handling and disposing drilling waste
- Carryout preparedness and response strategies for oil spills and use proper personal protective equipment (PPE) and safety gear
- Apply enhanced oil recovery (EOR) techniques and discuss the challenges and technologies for deepwater and ultra-deepwater drilling
- Identify the components and operation of subsea production systems as well as install and maintain subsea equipment
- Use automation and remote operations in offshore drilling and apply drilling data management and analysis
- Recognize the latest advancements and innovations as well as the future trends in offshore drilling technology

- Carryout offshore drilling project planning, budgeting, scheduling, and resource allocation
- Identify the types of contracts and procurement strategies as well as manage contracts and relationships with suppliers
- Recognize software and tools for managing drilling projects and apply best practices for project management

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 a basic overview of all significant aspects and considerations of offshore drilling operations for drilling, drilling supervisors and managers, petroleum engineers, project managers, rig personnel, health, safety, and environment (HSE) professionals, marine engineers and naval architects, geologists and geophysicists, regulatory and compliance officers and other technical staff.

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:

Captain Sergey Kole is an **International Expert** in **Port Operations & Management** with over **30 years** of **onshore** and **offshore** experience within the **Oil & Gas**, **Petroleum** and **Refinery** industry. His expertise widely covers in the areas of **Offshore Drilling Operations**, **Coastal Navigation**, **Dry Docking Mechanical** System, **Dry-docking & Underwater Repair**, **Dry Docking** System, **Tugs/Boats Handling & Maneuvering**, **Ballast Water Management Convention**, **Ship Surveys**, **Ship Surveying** Planning, **Ship Survey** Preparation, **Marine Incident Investigation & Root Cause Analysis**, **Oil Spill** Management & Response, **Oil Spill IMO Level I-III**, **Oil Spill Pollution Control**, **Oil Spill Contingency & Emergency** Response Plan, **Tanker Vetting & Inspection**, **Marine Vetting & Audit Criteria Manual** for **Tank Ships**, **Marine & Ship Vetting**, **Vetting Process & Marine Safety Criteria**, **Tanker Vetting** for **Terminals**, **Ship Vetting**, **Marine Terminal** Operations & Management, **Marine Hazards** Prevention & Control, **Marine Communication** Systems, **Marine Safety**, **Ship** Management, **Oil Terminal** Planning, **Vessels** Operations, **Terminal** Management & Support Operations, **Oil Spill Contingency & Emergency Response Plan**, **Qualitative & Quantitative Risk** Assessments, **Terminal** Planning, **Oil Tanker Storage** Planning, **Cargo Transfer** Handling, Loading & Discharging, **Ballasting**, **Tank** Cleaning, **Crude Oil Washing**, **Ship** Handling, **Radar** Navigation, **Navigational** Aids, **Meteorological** Data Review, **Sea & Weather** Condition Monitoring, **ERT Vessel** Coordination and **Transport & Distribution Carrier**. Further, he is well-versed in Sea-**going** Personnel Human Resource Management, **Survival Craft & Rescue Boats**, Dynamic Positioning, Anti-Piracy Preparedness & Response, **Shipping** Maintenance System, **Oil & Chemical Tanker**, **Liquefied Gas Tanker**, **Inert Gas** System, **Crude Oil** Tanker & Gas Carrier, Offshore Logistics & Supply Management, International **Oil Supply**, **Transportation**, **Refining & Trading**, **Marine Fleet** Management & Operations, **International Maritime Conventions & Codes**, **Marine Radar**, **Port Traffic Control** Systems & Instrumentation, **H^2S** Hazard Awareness, **Firefighting**, Medical Care Onboard, Carriage of Dangerous & Hazardous Substances and **Ballast Water & Sediment** Management.

During his career life, Captain Sergey has gained his technical and marine expertise through various challenging key positions such as being the **Captain**, **Operations Director**, **Project Manager**, **Port Supervisor**, **Master** of General Cargo Ship, **Master** of Container Ship, **Chief Officer**, **Marine Operations Specialist**, **Marine Coordinator**, **On-call Duty Officer**, **Crewing Consultant**, **2nd Officer**, **Ship Chandler** and **Senior Instructor/Trainer** for several international companies such as **ZADCO**, **AMEC Foster Wheeler**, Fircroft Engineering Services, Ltd., Rusalina Yacht Company, Van Oord Offshore, Exxon Neftegaz Ltd (ENL), Jr Shipping, Carisbrooke Shipping, Unicorn Petrol ve Kimya, Q Shipping BV, m/v Tradeport, Miedema Shipping CV, Rah Management BV, Petrobulk Maritime Inc., Empross Lines Ship Management, Melcard Ltd., Aquarian Shell Marine Inc., Mercy Baaba and Square Ltd.

Captain Sergey has a **Bachelor's** degree in **Navigation** in **Nautical Studies** from the **Kiev State Academy** of **Water Transport**, **Ukraine** and holds a **Master Mariner** (Unlimited) Certificates of Equivalent Competency from the MCA, UK and NSI, Netherlands. Further, he is a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**) and has delivered various trainings, courses, seminars, workshops and conferences internationally.

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	***Basic Concepts in Offshore Drilling*** *Types of Offshore Drilling Rigs (Jack-Up, Semi-Submersible, Drillship) ● Key Components of a Drilling Rig & their Functions*
0930 – 0945	*Break*
0945 – 1045	***Offshore Drilling Terminology*** *Common Terms & Jargon Used in the Industry ● Understanding Drilling Reports & Documentation*
1045 – 1145	***Drilling Rigs & Platforms*** *Overview of Different Offshore Drilling Platforms ● Criteria for Selecting a Drilling Rig*
1145 - 1230	***Introduction to Offshore Drilling Processes*** *Basic Steps in the Drilling Process ● Introduction to the Well Lifecycle*
1230 – 1245	*Break*
1245 - 1420	***Drilling Rig Components & Equipment*** *Detailed Study of Rig Components: Derrick, Rotary Table, Draw Works ● Functions & Importance of Each Component*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day One*

Day 2

0730 – 0930	***Drill Bits & Bottom Hole Assemblies*** *Types of Drill Bits & their Applications ● Bottom Hole Assembly (BHA) Configuration & Design*
0930 – 0945	*Break*
0945 – 1100	***Drilling Fluids & Circulation Systems*** *Types of Drilling Fluids (Mud) ● Functions & Properties of Drilling Fluids*
1100 - 1230	***Well Control Equipment*** *Blowout Preventers (BOPs) & their Operation ● Methods for Maintaining Well Control*
1230 – 1245	*Break*
1245 – 1330	***Drilling Operations & Procedures*** *Detailed Drilling Procedures from Spudding to Reaching Target Depth ● Safety Protocols & Best Practices During Drilling Operations*

1330 - 1420	***Directional Drilling Techniques*** *Introduction to Directional Drilling ● Tools & Techniques Used in Directional Drilling*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today & Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Two*

Day 3

0730 – 0830	***Offshore Safety Regulations & Standards*** *Overview of International & Regional Safety Regulations ● Key Organizations & their Roles in Safety Enforcement*
0830 – 0930	***Risk Management & Safety Planning*** *Identifying & Assessing Risks in Offshore Drilling ● Developing Safety Plans & Emergency Response Procedures*
0930 – 0945	*Break*
0945 – 1100	***Environmental Impact of Offshore Drilling*** *Environmental Challenges & Concerns ● Strategies for Minimizing Environmental Impact*
1100 – 1230	***Waste Management & Pollution Control*** *Managing Drilling Waste & Preventing Pollution ● Techniques for Handling & Disposing of Drilling Waste*
1230 – 1245	*Break*
1245 – 1330	***Oil Spill Response & Contingency Planning*** *Preparedness & Response Strategies for Oil Spills ● Case Studies of Oil Spill Incidents & Lessons Learned*
1330 - 1420	***Health & Safety Protocols*** *Personal Protective Equipment (PPE) & Safety Gear ● Health & Safety Training for Offshore Personnel*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Three*

Day 4

0730 – 0830	***Enhanced Oil Recovery (EOR) Techniques*** *Overview of EOR Methods ● Application of EOR in Offshore Drilling*
0830 – 0930	***Deepwater & Ultra-Deepwater Drilling*** *Challenges & Technologies for Deepwater Drilling ● Case Studies of Deepwater Drilling Projects*
0930 – 0945	*Break*
0945 – 1100	***Subsea Production Systems*** *Components & Operation of Subsea Production Systems ● Installation & Maintenance of Subsea Equipment*
1100 – 1230	***Automation & Remote Operations*** *Use of Automation in Offshore Drilling ● Remote Monitoring & Control of Drilling Operations*
1230 – 1245	*Break*

1245 – 1330	***Drilling Data Management & Analysis*** *Importance of Data in Drilling Operations ● Tools & Techniques for Data Collection & Analysis*
1330 - 1420	***Innovations in Offshore Drilling Technology*** *Latest Advancements & Innovations ● Future Trends in Offshore Drilling Technology*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Four*

Day 5

0730 - 0830	***Offshore Drilling Project Planning*** *Steps in Planning a Drilling Project ● Budgeting, Scheduling, & Resource Allocation*
0830 – 0930	***Contracting & Procurement in Offshore Drilling*** *Types of Contracts & Procurement Strategies ● Managing Contracts & Relationships with Suppliers*
0930 – 0945	*Break*
0945 – 1045	***Drilling Project Management Tools*** *Software & Tools for Managing Drilling Projects ● Best Practices for Project Management*
1045 – 1230	***Case Studies of Successful Offshore Drilling Projects*** *Analysis of Successful Offshore Drilling Projects ● Key Takeaways & Lessons Learned*
1230 – 1245	*Break*
1245 – 1345	***Challenges & Solutions in Offshore Drilling*** *Common Challenges Faced in Offshore Drilling ● Strategies for Overcoming these Challenges*
1345 – 1400	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
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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