



COURSE OVERVIEW OE0110

Marine Utilities Systems Operations & Maintenance

Course Title

Marine Utilities Systems Operations & Maintenance

Course Date/Venue

Session 1: January 13-17, 2025/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
Session 2: August 10-14, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE



Course Reference

OE0110



Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

Course Description



This practical and highly-interactive course includes real-life case studies where participants will be engaged in a series of interactive small groups and class workshops.

Today, offshore activities take place in the waters of more than half the nations on earth. Offshore operators drill wells from modern steel or concrete structures, that in many cases, movable. Further, offshore rigs have drilled in waters over 7,500 feet (over 2,200 meters) deep and as far as 200 miles (over 300 kilometers) from shore.



Offshore drilling and production have progressed far beyond any earlier expectations. Offshore work today involves a wide range of technologies. These technologies are similar in many cases to those used to find, produce, and transport oil and gas on land.



Offshore activities include, however, additional traditional technologies that relate to a marine environment. Unlike oil operations on land, offshore operation involves marine operations, meteorology, naval architecture, mooring and anchoring techniques, and buoyancy, stability, and trim.





Marine Operations is the blood of the Offshore Oil and Gas Industry. Proper planning, controlling and management of the marine operations lead to a smooth offshore Oil & Gas operations and contrary is correct. This course is designed to provide participants with understanding of safe and effective marine operations in the support of offshore operations. It will cover the use of vessels in the lifecycle of an offshore development; the importance and type of vessels to different operational stages in the life of the offshore field; the types of offshore installation and stages of operation; the anchor handling procedures; the supply and resupply; and the differences between shallow and deep-water operations.

During this interactive course, participants will learn the process of chartering and brokering vessels; the market and commercial aspects, Marine legislations, Health/Safety/Environment (HSE) and its applications to the marine operations; the management of the marine operations during mobilization, operations and post-mobilizations; the details of the relevant use of marine vessels during the life of an offshore field which includes mobilization issues, operation of the relevant vessels; the nature of equipment used, not only operational equipment but essential vessel equipment fit; the marine support to exploration and survey; the well intervention and the subsea operations; the offshore construction and pipelaying; the ROV and AUV operations; the production and maintenance of the offshore fields which include survey and diving operations.

Course Objectives

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

- Apply and gain an in-depth knowledge on marine operations in offshore petroleum industry
- Discuss the range of the offshore industry, vessel utilization, types of offshore installation, stages of operation, exploration, well maintenance, anchor handling, etc. in offshore marine operations
- Determine offshore construction, production, operations, supply and re-supply, areas of offshore operation and the differences between shallow and deepwater operations
- Interpret the market and commercial aspects of offshore marine operations by identifying the ship owners, charters and chartering vessels, reviewing how the industry works and analyzing the current major players in the market, market drivers and new build orders worldwide
- Explain legislation, health, safety and environment as applied in offshore marine operations and identify the various offshore safety organizations as well as the marine warranty survey (Fit-For-Purpose)
- Employ proper management of offshore operations by following the pre-operations, operations & post-operations procedures and requirements
- List the various offshore operations and marine spread equipment used in offshore marine operation and recognize their importance in exploration and survey
- Carryout subsea operations including remote intervention, ROV operations, AUV operations, production operations, construction support and diving operations as well as discuss pipeline and umbilical lay and diving capabilities

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 is intended for those interested to know more about the offshore marine operations such as field managers, superintendents, marine operations managers, marine superintendents, marine supervisors, marine engineers, barge superintendents, deck foremen, captains, masters, marine officers, surveyors, positioning chiefs, HSE managers, safety officers, emergency response teams, winch engineers, AHTS deck leaders, deck crew and derrick crane operators. Further, it is applicable for young engineers, managers, business development executives involved in the offshore industry, new entrants from other industry sectors, those within the sector seeking to acquire a greater awareness of this segment, or simply looking to update their knowledge and those out with the sector seeking to gain information on how the offshore marine sector works.

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\$ 8,000 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: -

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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.



Course Instructor

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 & Logistics Management** with over **25 years** of **onshore** and **offshore** experience within the **Oil & Gas, Petroleum** and **Refinery** industry. His expertise widely covers in the areas of **Anatomy of Shipping, Logistics & Transportation Planning** Methods, **Forecasting Logistics Demands**, **Visual Network Model, Logistics Operations, 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, Marine Fleet Management & Operations, International Maritime Conventions & Codes, Marine Radar, Port Traffic Control Systems & Instrumentation, H²S 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	Offshore Marine Operations Range of the Offshore Industry • Vessel Utilization • Types of Vessels in the Offshore Lifecycle
0930 – 0945	Break
0945 – 1230	Offshore Marine Operations (cont'd) Types of Offshore Installation • Stages of Operation • Exploration; Well Maintenance; Anchor Handling
1230 - 1245	Break
1245 – 1330	Offshore Marine Operations (cont'd) Offshore Construction • Production & Operations • Supply & Re-supply
1330 – 1420	Offshore Marine Operations (cont'd) Differences Between Shallow Water Operations and Deepwater Operations • Areas of Offshore Operation: Arabian Gulf, North Sea, Gulf of Mexico, West Africa, Asia, Brazil
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	Market & Commercial Aspects Ship Owners & Charterers • Chartering Vessels • How the Industry Works
0930 – 0945	Break
0945 - 1045	Market & Commercial Aspects (cont'd) Market Drivers • Current Major Players in the Market • New Build Orders Worldwide
1045 – 1230	Legislation, Health, Safety & Environment International Legislation • The Role of HSE & the Requirements • Offshore Safety Organizations
1230 – 1245	Break
1245 – 1420	Legislation, Health, Safety & Environment (cont'd) Safety Cases • Accident Reporting • Case Histories
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 Two





Day 3

0730 – 0930	Management of Offshore Operations Pre-Operations • The Players & Interfaces • Selection & Audit • Technical Preparation • Safety Management • Project Roll-out
0930 – 0945	Break
0945 - 1045	Management of Offshore Operations (cont'd) Operations • Pre Mobilization Issues • Audit Issues Close-out; Risk Assessment; Procedures Approval; Bridging Manual; Roles & Responsibilities; Emergency Response • Mobilization
1045 – 1230	Management of Offshore Operations (cont'd) Vessel Facilities • Project Management • 3rd Party Contractors • Safety Management & Security • Certification, Control & Co-ordination • Offshore Operations: Roles & Responsibilities; Daily Progress Reporting; Work Scheduling; Information Transfer; Safety; Logistics
1230 – 1245	Break
1245 – 1420	Management of Offshore Operations (cont'd) Post Operations • Demobilization • Technical & Commercial Close-out • Safety Review • Lessons Learned ('SIREN') • Incentives & Rewards
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 – 0930	Offshore Operations & Marine Spread Equipment Exploration & Survey • Seismic Exploration • Seabed Survey • Surface & Sub Sea Navigation
0930 – 0945	Break
0945 - 1045	Offshore Operations & Marine Spread Equipment (cont'd) Well Intervention Services • Well Intervention • Work-over
1045 – 1230	Offshore Operations & Marine Spread Equipment (cont'd) DP Operations • Sub Sea Operations
1230 – 1245	Break
1245 – 1420	Offshore Operations & Marine Spread Equipment (cont'd) Construction • Heavy Lift • Trenching • Decommissioning & Abandonment
1420 – 1430	Recap
1430	Lunch & End of Day Four



Day 5

0730 – 0830	Subsea Operations Remote Intervention • ROV Operations • AUV Operations • Intervention Tooling & Vessel Requirements
0830 – 0930	Subsea Operations (cont'd) Production Operations • Inspection, Maintenance and Repair • Supply & Re-supply Interfaces
0930 – 0945	Break
0945 - 1230	Subsea Operations (cont'd) Construction Support • Pipeline & Umbilical Lay
1230 - 1245	Break
1245 – 1345	Subsea Operations (cont'd) Diving Capabilities • Diving Operations
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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