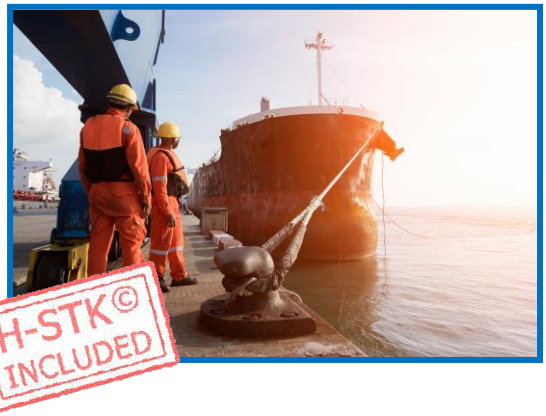
COURSE OVERVIEW OE0102
Marine Vessel Management & Operations

Course Title
Marine Vessel Management and Operations

Course Date/Venue
October 13-17, 2025/Al Reem 2, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Reference
OE0102

Course Duration/Credits
Five days/3.0 CEUs/30 PDHs



Course Description

This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using our state-of-the-art simulators.

This course is designed to provide participants with a detailed and up-to-date overview of Marine Vessel Management and Operations. It covers the marine vessel types and functions, key departments and roles on board and ship registration and classification societies; the marine operations lifecycle, marine communication and navigation; the legal and regulatory framework and safety management systems (SMS); the emergency response procedures, health and safety at sea, risk assessment and hazard identification; the security management on vessels, audits and inspections and ship power generation and distribution; and the propulsion and steering systems and auxiliary systems on board.

During this interactive course, participants will learn the planned maintenance system (PMS), dry docking and repairs and fuel and lubrication systems; the cargo handling operations, tanker and hazardous cargo operations and ballast water management; the port and terminal coordination, documentation and reporting and supply chain and logistics management; the fleet management and operations control, environmental compliance and sustainability and digitalization and smart shipping; the human resource management and crew welfare; and the maritime economics and commercial 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 vessel management and operations
- Identify marine vessel types and functions, key departments and roles on board and ship registration and classification societies
- Illustrate marine operations lifecycle covering pre-departure procedures and checks, voyage planning and execution, port arrival and departure management and post-voyage documentation and reporting
- Carryout marine communication and navigation and recognize legal and regulatory framework and safety management systems (SMS)
- Employ emergency response procedures, health and safety at sea, risk assessment and hazard identification
- Apply security management on vessels, audits and inspections and ship power generation and distribution
- Recognize propulsion and steering systems and auxiliary systems on board
- Carryout planned maintenance system (PMS), dry docking and repairs and fuel and lubrication systems
- Apply cargo handling operations, tanker and hazardous cargo operations and ballast water management
- Implement port and terminal coordination, documentation and reporting and supply chain and logistics management
- Employ fleet management and operations control, environmental compliance and sustainability and digitalization and smart shipping
- Apply human resource management and crew welfare covering mental health and welfare practices, recruitment, retention and rotation and cultural sensitivity and team dynamics
- Carryout maritime economics and commercial operations covering chartering, freight markets and indices, insurance and P&I clubs and vessel valuation and finance

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 marine vessel management and operations for marine engineers and technical officers, ship captains and deck officers, fleet and vessel managers, port and terminal operations staff, shipping company executives and operations managers, marine surveyors and inspectors, safety, quality, and compliance officers, naval architects and marine consultants and those who involved in the technical, operational, and commercial aspects of marine vessels.

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:

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.

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 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: ***Monday, 13th of October 2025***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Overview of Marine Vessel Types & Functions*** *Classification of Vessels (Cargo, Tanker, Passenger, Offshore, etc.) • Vessel Components and Systems Overview • Flag State versus Port State • IMO Ship Identification and Registry*
0930 – 0945	*Break*
0945 – 1030	***Key Departments & Roles on Board*** *Deck Department Responsibilities • Engine Room and Technical Operations • Catering and Hotel Services on Cruise/Passenger Ships • Chain of Command and Crew Hierarchy*
1030 – 1130	***Ship Registration & Classification Societies*** *Role of Classification Societies (DNV, ABS, BV, LR, etc.) • Registration Process and Flags of Convenience • Survey Types (Annual, Intermediate, Dry Dock) • Class Notations and Compliance*
1130 – 1215	***Marine Operations Lifecycle*** *Pre-Departure Procedures and Checks • Voyage Planning and Execution • Port Arrival and Departure Management • Post-Voyage Documentation and Reporting*
1215 – 1230	*Break*
1230 – 1330	***Marine Communication & Navigation*** *Types of Communication Systems (VHF, MF/HF, INMARSAT) • Basics of Marine Navigation (Charts, ECDIS, Radar, GPS) • Voyage Data Recorders (VDR) • Role of AIS (Automatic Identification System)*

1330 – 1420	***Legal & Regulatory Framework*** *SOLAS (Safety of Life at Sea) • MARPOL (Marine Pollution) • ISM Code (International Safety Management) • Role of the IMO and National Authorities*
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: ***Tuesday, 14th of October 2025***

0730 – 0830	***Safety Management Systems (SMS)*** *Components of a Compliant SMS • Documentation and Recordkeeping • Safety Meetings and Drills • Management of Change Procedures*
0830 – 0930	***Emergency Response Procedures*** *Firefighting Equipment and Procedures • Abandon Ship and Survival Craft Drills • Man Overboard Protocols • Collision and Grounding Scenarios*
0930 – 0945	*Break*
0945 – 1100	***Health & Safety at Sea*** *Personal Protective Equipment (PPE) • Fatigue and Workload Management • Noise, Vibration and Confined Space Safety • Medical Care on Board*
1100 – 1215	***Risk Assessment & Hazard Identification*** *Risk Matrix Development • Job Safety Analysis (JSA) • Hazard Identification (HAZID) Techniques • Near-Miss and Incident Reporting*
1215 – 1230	*Break*
1230 – 1330	***Security Management on Vessels*** *ISPS Code Compliance • Security Levels and Ship Security Plan • Anti-Piracy and Anti-Smuggling Measures • Crew Training in Security Awareness*
1330 – 1420	***Audits & Inspections*** *Port State Control Inspections • Internal Audits and Flag State Inspections • Pre-Vetting and Terminal Inspections • Non-Conformance Reporting and Follow-Up*
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: ***Wednesday, 15th of October 2025***

0730 – 0830	***Ship Power Generation & Distribution*** *Marine Diesel Engines Overview • Generators and Electrical Distribution • Emergency Power Systems • Monitoring and Control Panels*
0830 – 0930	***Propulsion & Steering Systems*** *Types of Marine Propulsion (Direct-Drive, Diesel-Electric, etc.) • Shafting and Propeller Systems • Rudder Types and Steering Gears • Thrusters and Dynamic Positioning*
0930 – 0945	*Break*
0945 – 1100	***Auxiliary Systems on Board*** *Freshwater Production and Distribution • Sewage Treatment and Bilge Systems • Compressed Air and Hydraulic Systems • HVAC Systems and Refrigeration*

1100 – 1215	***Planned Maintenance System (PMS)*** *Maintenance Strategy and Scheduling • CMMS (Computerized Maintenance Management Systems) • Condition-Based Monitoring (CBM) • Spare Parts and Inventory Control*
1215 – 1230	*Break*
1230 – 1330	***Dry Docking & Repairs*** *Docking Cycle and Preparation • Steel and Coating Repairs • Propeller and Shaft Inspections • Third-Party Contractor Management*
1330 – 1420	***Fuel & Lubrication Systems*** *Fuel Types and Bunkering Procedures • Fuel Testing and Sampling • Lubrication Oil Systems and Checks • Energy Efficiency in Fuel Management*
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: Thursday, 16th of October 2025

0730 – 0830	***Cargo Handling Operations*** *Types of Cargo (Bulk, Breakbulk, Containerized, Liquid) • Loading and Discharge Procedures • Stability and Trim Considerations • Securing and Lashing Cargo*
0830 – 0930	***Tanker & Hazardous Cargo Operations*** *Oil, Chemical, and Gas Tanker Operations • Inert Gas Systems and Closed Loading • Cargo Compatibility and Segregation • Safety Measures During Cargo Operations*
0930 – 0945	*Break*
0945 – 1100	***Ballast Water Management*** *Ballast Exchange Methods • Ballast Water Treatment Systems • Environmental Compliance (BWM Convention) • Impact on Stability and Draft*
1100 – 1215	***Port & Terminal Coordination*** *Pre-Arrival Documentation and Planning • Pilotage and Tug Coordination • Berthing/Unberthing Procedures • Port Logistics and Cargo Scheduling*
1215 – 1230	*Break*
1230 – 1330	***Documentation & Reporting*** *Bill of Lading and Manifest • Stability Booklets and Cargo Plans • Logbooks and Records • Cargo Condition and Incident Reports*
1330 – 1420	***Supply Chain & Logistics Management*** *Fleet Supply and Procurement • Inventory Control and Forecasting • Just-in-Time (JIT) Delivery at Sea • Coordination with Logistics Providers*
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: **Friday, 17th of October 2025**

0730 – 0830	***Fleet Management & Operations Control*** *Centralized versus Decentralized Fleet Control • Operational KPIs and Performance Benchmarks • Fleet Optimization and Cost Control • Software and Data Platforms for Fleet Ops*
0830 – 0930	***Environmental Compliance & Sustainability*** *Energy Efficiency Design Index (EEDI) • Ship Energy Efficiency Management Plan (SEEMP) • Emission Control Areas (ECAs) • Green Technologies (Scrubbers, LNG Fuel, Sails)*
0930 – 0945	*Break*
0945 – 1100	***Digitalization & Smart Shipping*** *Voyage Optimization Algorithms • Remote Engine Diagnostics and IoT Sensors • Blockchain in Shipping Documents • Maritime Cybersecurity Essentials*
1100 – 1230	***Human Resource Management & Crew Welfare*** *Crew Training and Certification (STCW) • Mental Health and Welfare Practices • Recruitment, Retention, and Rotation • Cultural Sensitivity and Team Dynamics*
1230 – 1245	*Break*
1245 – 1300	***Maritime Economics & Commercial Operations*** *Chartering: Time, Voyage, and Bareboat • Freight Markets and Indices (e.g., BDI) • Insurance and P&I Clubs • Vessel Valuation and Finance*
1300 - 1345	***Case Studies & Final Workshop*** *Case Study: Incident Response and Reporting • Voyage Optimization Simulation • Safety Audit and Action Planning*
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

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