COURSE OVERVIEW OE0858

Environmental Consideration in Management of Ballast Water for Ships and Marine Ports

Course Title

Environmental Consideration in Management of Ballast Water for Ships and Marine Ports



Course Date/Venue

Session 1: June 20-24, 2027/Meeting Plus 9, City Centre Rotana Doha Hotel, Doha, Qatar

Session 2: November 14-18, 2027/Meeting Plus 9, City Centre Rotana Doha Hotel, Doha, Qatar

3.0 CEUs (30 PDHs) AWARD

Course Reference

OE0858

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.

Shipping moves over 80% of the world's commodities and transfers approximately three to five billion tonnes of ballast water internationally every year. Ballast water is essential to the safe and efficient operation of shipping, but it also poses a serious ecological, economic and health threat through the transfer of invasive aquatic species inadvertently carried in it.

Ballast water contains a variety of organisms including bacteria and viruses and the adult and larval stages of the many marine and coastal plants and animals. While the vast majority of such organisms will not survive to the point when the ballast is discharged, some may survive and thrive in their new environment. These 'non-native species, if they become established, can have a serious ecological, economic and public health impact on the receiving environment.

The transfer of invasive marine species into new environments via ballast water has been identified as one of the major threats to the world's oceans. In response, the United Nations Conference on Environment and Development (UNCED) held in Rio de Janeiro called on the International Maritime Organization (IMO) and other international bodies to take action to address the problem.

This course is designed to provide participants with a detailed and up-to-date overview of environmental consideration in management of ballast water for ships and marine ports. It covers the objective and methodology frame; the ballast water management on ship requirements and operational aspects; and the ballast water management in port analysis and considerations model framework.

Course Objectives/Outcomes & Benefits for the Participants

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

- Apply and gain an in-depth knowledge on environmental consideration in management of ballast water for ships and marine ports
- Explain the objectives, methodology framework and the problem and importance of ballast water for ships and marine ports
- Define ballast water and discuss the invasive species problem, harmful aquatic organism and pathogens
- Recognize the impacts of invasive as well as the goals and principles of invasive management
- Describe the use of ballast water management and recognize the global response to ballast water problem
- Review ballast water management convention and guidelines and determine the GloBallast partnerships programs
- Employ ballast water management on ships requirements and operational aspects
- Carryout ballast water management on ships and international requirement for BW on ships
- Apply precautionary approach to BWM, ships ballast water management plan and voyage planning
- Facilitate of BW, sediment sampling, duties and tanning
- Identify the surveys required for ballast water management and the international (BWM) certificate
- Review the operational aspects of ballast water management and ballast water reporting form
- Discuss national legislation and enforcement provisions, compliance monitoring and enforcement (CME)
- Implement inspection and ballast water sampling
- Illustrate the ballast water management in port analysis and considerations model framework
- Identify the role of the port authorities and develop a plan for ballast water management consistent with IMO guidelines
- Recognize reception facilities, characterization and analysis of the current situation in ports
- Propose a clear and precise framework for implementing ballast water management measures in ports

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 consideration of environmental consideration in management of ballast water for ships and marine ports for harbor masters, port masters, ships masters, chief engineers, environmental protection officers, environmental engineers, HSE professionals, ecologists, coast guard officers and coast protection professionals.

Training Methodology

Our courses employ an interactive, learner-centred methodology that integrates theoretical knowledge with practical application. The training is delivered through a suitable combination of some or all of the following methods, selected according to the course content and learning objectives:

- Instructor-led presentations and facilitated discussions
- Practical workshops and participant presentations
- Hands-on exercises and real-world case studies
- Equipment demonstrations and technical drawings
- Hardware- and software-based simulations
- Gamification & Role Play in soft-skills courses only
- Virtual Reality (VR) and Augmented Reality (AR)
- Instructional videos and other relevant training resources

This blended approach encourages active participation, strengthens practical skills and supports the effective application of acquired knowledge in the workplace.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

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

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 **Tanker Vetting & Inspection**, **International Ship and Port Facility Security Code** (**ISPS**) **Code**, **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, **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	***Objective & Methodology Frame for the Search*** *Introduction • Objective*
0930 – 0945	*Break*
0945 – 1100	***Objective & Methodology Frame for the Search (cont'd)*** *Methodology Framework • The Problem*
1100 – 1200	***Objective & Methodology Frame for the Search (cont'd)*** *Importance • What's Ballast Water?*
1200 – 1215	*Break*
1330 – 1420	***Objective & Methodology Frame for the Search (cont'd)*** *Invasive Species Problem, Harmful Aquatic Organism and Pathogens*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 0900	***Objective & Methodology Frame for the Search (cont'd)*** *What are the Impacts of this Invasive? • Goals and Principles of Invasive Management*
0900 – 0915	*Break*
0915 – 1100	***Objective & Methodology Frame for the Search (cont'd)*** *The Use of Ballast Water Management*
1100 – 1230	***Objective & Methodology Frame for the Search (cont'd)*** *The Global Response to Ballast Water Problem*
1230 – 1245	*Break*
1245 – 1420	***Objective & Methodology Frame for the Search (cont'd)*** *Ballast Water Management Convention and Guidelines • GloBallast Partnerships Program*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 – 0900	***Ballast Water Management on Ship Requirements & Operational Aspects*** *Ballast Water Management on Ships • International Requirement for BW on Ships*
0900 – 0915	*Break*
0915 – 1100	***Ballast Water Management on Ship Requirements & Operational Aspects (cont'd)*** *Application of the Precautionary Approach to BWM*
1100 – 1230	***Ballast Water Management on Ship Requirements & Operational Aspects (cont'd)*** *Ships Ballast Water Management Plan • Voyage Planning*

1230 – 1245	*Break*
1245 – 1420	***Ballast Water Management on Ship Requirements & Operational Aspects (cont'd)*** *Facilitation of BW and Sediment Sampling • Duties and Tanning*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4

0730 – 0900	***Ballast Water Management on Ship Requirements & Operational Aspects (cont'd)*** *The Surveys Required for Ballast Water Management • The International (BWM) Certificate*
0900 – 0915	*Break*
0915 – 1100	***Ballast Water Management on Ship Requirements & Operational Aspects (cont'd)*** *Operational Aspects of Ballast Water Management • Ballast Water Reporting Form*
1100 – 1230	***Ballast Water Management on Ship Requirements & Operational Aspects (cont'd)*** *National Legislation and Enforcement Provisions • Compliance Monitoring & Enforcement (CME)*
1230 – 1245	*Break*
1245 – 1420	***Ballast Water Management on Ship Requirements & Operational Aspects (cont'd)*** *Inspection • Ballast Water Sampling*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5

0730 – 0900	***Ballast Water Management in Port Analysis & Considerations Model Framework*** *The Role of the Port Authorities*
0900 – 0915	*Break*
0915 – 1100	***Ballast Water Management in Port Analysis & Considerations Model Framework (cont'd)*** *Develop a Plan for Ballast Water Management Consistent with IMO Guidelines*
1100 – 1230	***Ballast Water Management in Port Analysis & Considerations Model Framework (cont'd)*** *Reception Facilities • Characterization and Analysis the Current Situation in Ports*
1230 – 1245	*Break*
1245 – 1345	***Ballast Water Management in Port Analysis & Considerations Model Framework (cont'd)*** *Proposing a Clear and Precise Framework for Implementing Ballast Water Management Measures in Ports*
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 the following real-life case studies and exercises:-



Course Coordinator

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