

COURSE OVERVIEW OE0089 Certificate in Marine Pollution Prevention & Management

Course Title

Certificate in Marine Pollution Prevention & Management

Course Date/Venue

December 09-13, 2024/Online Virtual Training

Course Reference

OE0089

Course Duration/Credits

Five days/2.0 CEUs/20 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 Marine Pollution Prevention & Management. IMO, MARPOL); the marine pollution control laws and their enforcement; the marine casualties, pollution incidents and classification of societies and salvors in pollution prevention; and the global and regional pollution agreements, sources of air pollution from marine vessels and emissions regulations and standards.



Further, the course will also discuss the international air emissions control initiatives, non-regulatory emission control strategies and greenhouse gas (GHG) emissions from ships; monitoring, reporting and verifying (MRV) systems; the global systems for emissions monitoring and reporting; the environmental threats from ballast water, ballast water treatment technologies, anti-fouling systems and marine pollution; the pollution risks from hazardous and noxious substances (HNS) carried by vessels; and the prevention and response strategies for chemical spills.



During this interactive course, participants will learn to manage bilge water and waste oil in compliance with MARPOL Annex I; the impact of improper bilge water management on marine pollution; the ship scrapping and recycling practices; the characteristics of oil pollution and its impact on marine environments; the environmental threats from offshore exploration, drilling, and production activities including the regulatory measures to prevent oil pollution in offshore operations; the oil spill containment and cleanup techniques; the international convention on oil pollution preparedness, response and co-operation (OPRC); the oil pollution claims and compensation, legal framework for marine pollution prevention and insurance and liability in shipping; the proper assessment and handling of pollution claims; and the criminal liability in marine pollution.

Course Objectives

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

- Apply and gain an in-depth knowledge on marine pollution prevention and management
- Discuss the types and sources of marine pollution and the global impact of marine pollution on ecosystems and economies
- Identify the common pollution sources from vessels and the pollution risks in vessels in distress and during salvage operations
- Define the role of international, regional, and local regulatory bodies (e.g., IMO, MARPOL) and discuss marine pollution control laws and their enforcement
- Review marine casualties and pollution incidents and classify societies and salvors in pollution prevention
- Discuss global and regional pollution agreements, sources of air pollution from marine vessels and emissions regulations and standards
- Recognize international air emissions control initiatives, non-regulatory emission control strategies and greenhouse gas (GHG) emissions from ships
- Monitor, report and verify (MRV) systems including the global systems for emissions monitoring and reporting
- Identify environmental threats from ballast water, ballast water treatment technologies, anti-fouling systems and marine pollution
- Recognize pollution risks from hazardous and noxious substances (HNS) carried by vessels as well as apply prevention and response strategies for chemical spills
- Manage bilge water and waste oil in compliance with MARPOL Annex I and discuss the impact of improper bilge water management on marine pollution
- Apply ship scrapping and recycling practices and describe the characteristics of oil pollution and its impact on marine environments
- Discuss the environmental threats from offshore exploration, drilling, and production activities including the regulatory measures to prevent oil pollution in offshore operations
- Employ oil spill containment and cleanup techniques and discuss the international convention on oil pollution preparedness, response and co-operation (OPRC)
- Discuss oil pollution claims and compensation, the legal framework for marine pollution prevention and insurance and liability in shipping
- Carryout proper assessment and handling of pollution claims and discuss criminal liability in marine pollution





Who Should Attend

This course provides an overview of all significant aspects and considerations of marine pollution prevention and management for HSE professionals, marine operations teams, ecological scientists and those interested in having a practical knowledge on the prevention of marine pollution and protection of environment.

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\$ 4,000 per Delegate + VAT.

Virtual Training (If Applicable)

If this course is delivered online as a Virtual Training, the following limitations will be applicable:-

Certificates	Only soft copy certificates will be issued to participants through Haward’s Portal. This includes Wallet Card Certificates if applicable
Training Materials	Only soft copy Training Materials (PDF format) will be issued to participant through the Virtual Training Platform
Training Methodology	80% of the program will be theory and 20% will be practical sessions, exercises, case studies, simulators or videos
Training Program	The training will be for 4 hours per day starting at 0930 and ending at 1330
H-STK Smart Training Kit	Not Applicable
Hands-on Practical Workshops	Not Applicable
Site Visit	Not Applicable
Simulators	Only software simulators will be used in the virtual courses. Hardware simulators are not applicable and will not be used in Virtual Training




Course Certificate(s)

(1) Internationally recognized Competency Certificates and Plastic Wallet Cards will be issued to participants who completed a minimum of 80% of the total tuition hours and successfully passed the exam at the end of the course. Certificates are valid for 5 years.

Recertification is FOC for a Lifetime.

Sample of Certificates


The following are samples of the certificates that will be awarded to course participants:-

Certificate in Marine Pollution Prevention & Management


Certification Number: 74851
Certification Date: 15-Nov-2023
Expiration Date: 15-Nov-2028

This is to certify that **Waleed Al Habeeb** has successfully met the requirements of the **Certificate in Marine Pollution Prevention & Management** Program, OE0089.



Mr. Jaryl Castillo
Academic Director

Haward Technology is accredited by:




Certificate in Marine Pollution Prevention & Management
Certification Program

This program is designed to assist companies in identifying professionals who have satisfied the minimum competencies specified in OE0089.

Haward Technology does not warrant or guarantee the performance of any professional certified under this program.

Haward Technology is accredited by:



74851



- (2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course.

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Haward Technology Middle East

Continuing Professional Development (HTME-CPD)

CEU Official Transcript of Records

TOR Issuance Date: 15-Nov-23

HTME No. 74851

Participant Name: Waleed Al Habeeb

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
OE0089	Certificate in Marine Pollution Prevention & Management	November 11-15, 2023	30	3.0

Total No. of CEU's Earned as of TOR Issuance Date **3.0**

TRUE COPY

Jaryl Castillo
Academic Director

Haward Technology has been approved as an Accredited Provider by the International Association for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2018 Standard which is widely recognized as the standard of good practice internationally. As a result of their Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for programs that qualify under the ANSI/IACET 1-2018 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 Association 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 is accredited by


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Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -


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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 **2.0 CEUs** (Continuing Education Units) or **20 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.

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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.



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 Mohamed Ghanem, MSc, BSc, is a Senior Jack-up Barge Captain with extensive experience in Drilling Rigs, Jackup Barge Operations and MODU within the Oil & Gas industry. His expertise widely covers in the areas of Jack-up Barges, Rig Safety Protocols, Drilling Rigs & Jack-up Barges Maintenance & Servicing, Drilling Rig Components, Naval & Marine Engineering, Marine Pollution Prevention & Management, Marine Planning & MODU Stability, Rig

Move Operation, UWILD, Stability Reports, Draft Surveys, Rig Reactivation & Under Water Surveys, Damage Survey & Cost Estimation, Tanker Vetting for Terminals, Loading Master Certification for Oil & Gas Terminals, Marine Terminal Operation, Liquefied Gas Tankers & Jetty Operation, Global Maritime Distress Safety System (GMDSS), International Maritime Conventions & Codes, International Ship and Port Facility Security Code (ISPS) Code, Buoyage System & International Code of Signals, Oil & Gas Marine Terminals, Port Terminals Crisis Management & Major Emergency Response, Marine Hazards Prevention & Control, Single Buoy Mooring System (SBM), Emergency Response Procedure, Oil Spill Management & Recovery, Oil Spill Prevention & Control, Oil Spill Combating Operations, Oil & Gas Marine Terminals, Offshore Marine Operation Management, Vessel Hull & Machinery Survey, Oil & Gas Fields Offshore Survey, Oil & Gas Terminals Loading & Discharging, Terminal Operations, Seamanship, Shipping Overview, Marine Fire Fighting Equipment, Hull Damage Control, Vessel Rescue, Life Saving, Safety Process, Major Emergency Management & Control, Crisis Management during Oil Spill and Firefighting. He is currently the Jack Up Barge Captain & Marine Planner wherein he oversee all the operations onboard the vessel including navigation, maintenance and compliance with local regulations.

During his life career, Captain Mohamed has gained his practical and field experience through his various significant positions and dedication as the **Barge Engineer & Marine Planner Onboard, Trainee Barge Engineer Onboard, Assistant Barge Master II Onboard, Assistant Barge Master Onboard, Design Engineer, Ship Yard Site Engineer/QC Engineer, Marine Draft Surveyor, Ship Repair Engineer, Vessel Repairing Engineer, Metal Cutting & Welding Planner, Marine Engineer Onboard, Technical Manager, Maintenance Mechanical Engineer and Reserve Marine Officer** from the Shelf Drilling Co, Marine & Engineering Consulting, ADMARINE III (X-GSF 103) at ADES, Oceandro Large Yacht Builder, International Inspection Company, Synchrony-Lift Works and B-Tech Company.

Captain Mohamed has **Bachelor's** degree in **Naval Architecture & Marine Engineering** and currently enrolled in **Master's** degree in **Naval Architecture & Marine Engineering**. Further, he is a **Certified Instructor/Trainer, a Certified Trainer, Assessor & Internal Verifier** by the **Institute of Leadership of Management (ILM)** and holds a certificate in **Marine III Engineer** and **OIM & Mobile Offshore Drilling Unit (MODU)**. He is an **active member** of The International Transport Workers' Federation (ITF), UK and has delivered numerous courses, workshops, trainings and conferences worldwide.



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, 09th of December 2024**

0930 – 0935	Registration & Coffee
0935 – 1000	Welcome & Introduction
1000 – 1030	PRE-TEST
1030 – 1100	Introduction to Marine Pollution Overview of Types & Sources of Marine Pollution • The Global Impact of Marine Pollution on Ecosystems & Economies
1100 - 1105	Break
1105 – 1115	Pollution from Ships: Causes & Risks Common Pollution Sources from Vessels d., Accidental Spills, Operational Discharges) • Pollution Risks in Vessels in Distress & During Salvage Operations
1115 – 1130	Governance of Marine Pollution Role of International, Regional & Local Regulatory Bodies (e.g., IMO, MARPOL) • Marine Pollution Control Laws & their Enforcement
1130 – 1230	Marine Casualties & Pollution Incidents Case Studies on Ship Casualties Leading to Pollution • The Response Mechanisms to Vessel-Related Pollution
1230 – 1235	Break
1235 – 1300	Classification Societies & Salvors in Pollution Prevention Understanding the Role of Classification Societies in Mitigating Pollution Risks • Salvors' Responsibilities & Operations During Marine Pollution Incidents
1300 – 1325	Global & Regional Pollution Agreements Examination of Key International Conventions (e.g., MARPOL, OPRC) • Regional Agreements & their Enforcement Mechanisms
1325 - 1330	Recap
1330	End of Day One

Day 2: **Tuesday, 10th of December 2024**

0930 – 1000	Air Pollution from Ships Sources of Air Pollution from Marine Vessels (e.g., SO _x , NO _x , PM Emissions) • Overview of Emissions Regulations & Standards
1000 – 1030	International Air Emissions Control Initiatives Regulatory Frameworks such as the International Maritime Organization's (IMO) Initiatives (E.G., MARPOL Annex VI) • Overview of Emission Control Areas (ECAs)
1030 – 1035	Break
1035 – 1100	Non-Regulatory Emission Control Strategies Voluntary Emission Control Practices in the Shipping Industry • Green Technologies & Alternative Fuels to Reduce Emissions (e.g., LNG, Hybrid Systems)
1100 – 1200	Greenhouse Gas (GHG) Emissions from Ships Analyzing GHG Contributions from Maritime Activities • IMO's GHG Strategy & Long-Term Goals
1200 - 1205	Break

1205 - 1300	Monitoring, Reporting & Verification (MRV) Systems <i>The European Union's MRV Regulation • Global Systems for Emissions Monitoring & Reporting</i>
1300 - 1325	Case Studies on Air Pollution Management <i>Best Practices in Reducing Ship Emissions • Lessons Learned from Successful Air Pollution Control Initiatives</i>
1325 - 1330	Recap
1330	<i>End of Day Two</i>

Day 3: Wednesday, 11th of December 2024

0930 - 1000	Environmental Threats from Ballast Water <i>Impact of Invasive Species Introduced through Ballast Water • Overview of the IMO Ballast Water Management Convention</i>
1000 - 1030	Ballast Water Treatment Technologies <i>Emerging Technologies & Methods for Ballast Water Treatment • Best Practices for Compliance with Ballast Water Regulations</i>
1030 - 1035	<i>Break</i>
1035 - 1100	Anti-Fouling Systems & Marine Pollution <i>Impact of Toxic Anti-Fouling Paints & Systems on Marine Environments • Regulations such as the International Convention on the Control of Harmful Anti-Fouling Systems</i>
1100 - 1200	Chemical Pollution from Ships <i>Pollution Risks from Hazardous & Noxious Substances (HNS) Carried by Vessels • Prevention & Response Strategies for Chemical Spills</i>
1200 - 1205	<i>Break</i>
1205 - 1300	Bilge Water & Waste Oil Disposal <i>Methods for Managing Bilge Water & Waste Oil in Compliance with MARPOL Annex I • Impact of Improper Bilge Water Management on Marine Pollution</i>
1300 - 1325	Ship Scrapping & Recycling Practices <i>Environmental Concerns Surrounding Ship Breaking & Recycling • The Role of the Hong Kong Convention for Safe & Environmentally Sound Recycling of Ships</i>
1325 - 1330	Recap
1330	<i>End of Day Three</i>

Day 4: Thursday, 12th of December 2024

0930 - 1000	Fundamentals of Oil Pollution <i>Characteristics of Oil Pollution & its Impact on Marine Environments • Overview of Oil Spill Types & their Causes</i>
1000 - 1030	Pollution Risks in Offshore Oil & Gas Operations <i>Environmental Threats from Offshore Exploration, Drilling & Production Activities • Regulatory Measures to Prevent Oil Pollution in Offshore Operations</i>
1030 - 1035	<i>Break</i>
1035 - 1100	Oil Spill Response & Cleanup Methods <i>Techniques for Oil Spill Containment & Cleanup (e.g., Booms, Skimmers, Dispersants) • Role of Oil Spill Response Organizations (OSPRs) in Managing Marine Oil Spills</i>



1100 – 1200	International Instruments for Oil Spill Response Key Conventions such as the International Convention on Oil Pollution Preparedness, Response & Co-Operation (OPRC) • Collaboration Between Countries & Organizations for Oil Spill Management
1200 - 1205	Break
1205 - 1300	Oil Pollution Claims & Compensation Legal Frameworks for Compensation of Oil Pollution Damage (e.g., International Oil Pollution Compensation Funds) • Limitation of Liability & Compensation Claims Processes
1300 – 1325	Case Study: Oil Spill Incidents Analysis of Major Oil Spills (e.g., Exxon Valdez, Deepwater Horizon) • Lessons Learned & Improvements in Oil Spill Prevention & Response
1325 - 1330	Recap
1330	End of Day Four

Day 5: Friday, 13th of December 2024

0930 – 1000	The Legal Framework for Marine Pollution Prevention Overview of International Marine Pollution Prevention Laws (e.g., UNCLOS, MARPOL) • The Role of National Laws in Pollution Control & Enforcement
1000– 1030	Insurance & Liability in Shipping The Concept of Limitation of Liability in Shipping (e.g., LLMC Convention) • Types of Insurance Coverage Related to Marine Pollution Incidents (e.g., P&I Insurance)
1030– 1035	Break
1035– 1100	Assessment & Handling of Pollution Claims Processes for Assessing Damages & Handling Pollution-Related Claims • Key Considerations in Assessing Liability & Compensation
1100 – 1130	Criminal Liability in Marine Pollution Overview of Criminal Liabilities for Ship Operators & Crew Members Involved in Pollution Incidents • The US Approach to Criminal Liability & Prosecution for Marine Pollution
1130– 1135	Break
1135– 1225	Synthesis & Application of Lessons Learned Discussion of Case Studies to Apply Theoretical Knowledge to Real-World Situations • Analysis of Case Law & Lessons from Past Pollution Incidents
1225 - 1230	Course Conclusion
1230 - 1330	COMPETENCY EXAM
1330	End of Course



Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

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