

COURSE OVERVIEW HE0790 **Oil Spill & Pollution Control**

Course Title

Oil Spill & Pollution Control

Course Date/Venue

December 14-18, 2025/Ras Al Khaimah Meeting Room, The Tower Plaza Hotel, Dubai, UAE

Course Reference

HE0790

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.



The International Convention on Oil Pollution Preparedness, Response and Cooperation, 1990 (OPRC) calls for the International Maritime Organization, along with relevant international and regional organisations, oil and shipping industries, to develop a comprehensive training programme in the field of oil pollution preparedness and response including the availability of expertise for the development and implementation of training programmes. In this regard, it was decided to develop three model training courses aimed at the following:-

Level one: First Responders

Level two: Supervisors and On-Scene Commanders

Level three: Administrators and Senior Managers



This course is designed to provide participants with a detailed and up-to-date overview of Oil Spill Management & Response. It covers the IMO OPRC guidelines and the types and sources of oil spills; the environmental and economic impact of oil spills and assessing public health risks; the initial assessment, spill characterization and contingency planning and preparedness; the legal and policy frameworks and containment and recovery techniques; the chemical dispersants and their use, in-situ burning and shoreline clean-up methods; the bioremediation as a response tool and health and safety in spill response; and the incident command system (ICS) and resource mobilization and coordination.

During this interactive course, participants will learn the communication plans for stakeholders; managing media relations during oil spill incidents and crisis communication strategies; the importance of continuous training and skill development, designing and implementing spill response drills and evaluating performance and improvement areas; the strategic use of technology in oil spill response and coordinating with international organizations (e.g. IMO, ITOF); the recent oil spill responses and common challenges in oil spill management; the post-spill review framework and equipment handling; and developing an oil spill response action plan, customizing response strategies for difference scenarios and creating actions checklist and contingency triggers.

Course Objectives

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

- Apply and gain an in-depth knowledge on oil spill management and response in accordance with the IMO OPRC standards
- Discuss the IMO OPRC guidelines including the types and sources of oil spills
- Explain the environmental and economic impact of oil spills and assess public health risks
- Conduct initial assessment and spill characterization and apply contingency planning and preparedness
- Discuss legal and policy frameworks and carryout containment and recovery techniques
- Identify chemical dispersants and their use, in-situ burning and shoreline clean-up methods
- Use bioremediation as a response tool and apply health and safety in spill response
- Recognize incident command system (ICS) and illustrate resource mobilization and coordination
- Develop communication plans for stakeholders, manage media relations during oil spill incidents and apply crisis communication strategies
- Discuss the importance of continuous training and skill development, design and implement spill response drills, evaluate performance and identify improvement areas
- Apply the strategic use of technology in oil spill response and coordinate with international organizations (e.g. IMO, ITOF)
- Recognize recent oil spill responses and the common challenges in oil spill management
- Develop a post-spill review framework and apply equipment handling, stakeholder engagement and multi-agency response
- Develop an oil spill response action plan, customize response strategies for difference scenarios and create action checklist and contingency triggers

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 oil spill management and response for managers, engineers and other technical and admin staff involved in oil spill management within ports, marine terminals, environmental, safety, HSE, marine operations, maintenance, marine authorities, municipalities, governmental and regulatory authorities.

Course Fee

US\$ 7,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day

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.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.



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:-



- (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.



Howard 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
HE0790	Oil Spill & Pollution Control	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

Howard 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, Howard 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, Howard Technology is authorized to offer IACET CEUs for programs that qualify under the ANSI/IACET 1-2018 Standard.

Howard 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.

Howard Technology is accredited by












P.O. Box 26070, Abu Dhabi, United Arab Emirates | Tel: +971 2 3091 714 | E-mail: info@haward.org | Website: www.haward.org

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.

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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(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:



Dr. John Petrus, PhD, MSc, BSc, is a **Senior HSE Consultant** with over **30 years of onshore & offshore** experience within the **Oil & Gas, Refinery and Petroleum** industries. His wide experience covers in the areas of **HAZOP & HAZID, HAZMAT & HAZCOM** Storage & Disposal, As Low as Reasonably Practicable (**ALARP**), Process Hazard Analysis (**PHA**), Process Safety Management (**PSM**), **Oil Spill** Management & Recovery, **Oil Spill** Management & Response, **Oil Spill** Prevention & Control, **Oil Spill** Combating Operations, **Oil Spill** Awareness, **Oil & Gas Marine Terminals, Hazardous Materials & Chemicals** Handling, **Pollution Control, Environment, Health & Safety**

Management, **Process Risk** Analysis, Effective Tool Box Talks, Construction Sites Safety, **HSSE** Management System, **HSSE Audit & Inspection, HSEQ Procedures, Authorized Gas** Testing, **Confined Space Entry & Rescue, Risk** Management, **Quantitative & Qualitative Risk** Assessment, **Working at Height, Firefighting** Techniques, **Fire & Gas** Detection System, **Fire Fighter & Fire** Rescue, **Fire Risk** Assessment, **HSE Industrial Practices, Manual Handling, Rigging Safety Rules, Machinery & Hydraulic Lifting Equipment, Warehouse Incidents & Accidents** Reporting, **Incident & Accident Investigation, Emergency Planning, Emergency Response & Crisis** Management Operations, **Waste Management** Monitoring, **Incident Command, Job Safety Analysis (JSA), Behavioral Based Safety (BBS)**. Further he is also well versed in Materials for **Construction & Repair of Concrete, Concrete Structures & Building Rehabilitation, Reinforced Concrete Structures** Protection, **Building Construction** Technology, **Construction Operations & Civil Engineering** Services, **Building Management, Building Maintenance, Construction & Concrete** Works, **Construction** Management, **Construction** Materials & Testing, **Construction Safety, Predictive Maintenance** in Construction, **Construction & Facilities** Development, **Buildings & Diverse Plant Infrastructure, Planning & Monitoring** the Progress & Quality of Work, **Physical Planning & Operations, Rotating Machinery** Principles & Applications, **Rotating Equipment** Selection, Operation, Maintenance, Inspection & Troubleshooting, **Rotating Machine/Equipment** in Industry, **Control Valves & Actuators, Data Analytics** for Managerial Decision Making, **Business Process Analysis, Mapping & Modeling, Research Methods & Analysis, Statistical Data Needs Analysis, Oil & Gas Industry Business Environment & Competitive Intelligence Gathering & Analysis, Petroleum Economics & Risk Analysis, Certified Data Analysis.**

During his career life, Dr. Petrus held significant positions and dedication as the **Executive Director, Senior Geoscience Advisor, Exploration Manager, Project Manager, Manager, HSE Engineer, Mechanical Engineer, Maintenance Engineer, Chief Geologist, Chief of Exploration, Chief of Geoscience, Senior Geosciences Engineer, Senior Explorationist, Senior Geologist, Geologist, Senior Geoscientist, Geomodeller, Geoscientist, CPR Editor, Resources Auditor, Project Leader, Technical Leader, Safety Supervisor, Team Leader, Senior HSE Consultant, Scientific Researcher and Senior Instructor/Trainer** from various international companies and universities such as the Dragon Oil Holding Plc., ENOC, MENA, ENI Group of Companies, Ocre Geoscience Services (OGS), Burren RPL, Ministry of Oil-Iraq, Eni Corporate University, Stanford University, European Universities, European Research Institutes, NorskHydro Oil Company, Oil E&P Companies, just to name a few.

Dr. Petrus has a **PhD in Geology and Tectonophysics** and **Master and Bachelor** degrees in **Earth Sciences** from the **Utrecht University, The Netherlands**. Further, he is a **Certified Instructor/Trainer, a Certified Trainer/Assessor/Internal Verifier** by the **Institute of Leadership & Management (ILM)**, a Secretary and Treasurer of Board of Directors of Multicultural Centre, Association Steunfonds SSH/SSR and Founding Member of Sfera Association. He has further published several scientific publications, journals, research papers and books and delivered numerous trainings, workshops, courses, seminars 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: Sunday, 14th of December 2025

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0900	Overview of IMO OPRC Guidelines Understanding the OPRC Convention & Its Significance • Roles & Responsibilities of Stakeholders in Oil Spill Response • Key Objectives & Scope of the OPRC Level 2 Certification • Regulatory Frameworks & International Cooperation
0900 – 0930	Types & Sources of Oil Spills Classification of Oil Types & their Properties • Common Causes of Oil Spills in Marine Environments • Case Studies on Significant Oil Spill Incidents • Impact of Oil Type on Response Strategy
0930 – 0945	Break
0945 – 1100	Environmental & Economic Impact of Oil Spills Effects on Marine & Coastal Ecosystems • Consequences for Local Economies & Industries • Short-Term versus Long-Term Environmental Impacts • Assessment of Public Health Risks
1100 – 1230	Initial Assessment & Spill Characterization Techniques for Assessing Spill Size & Spread • Use of Satellite & Aerial Surveillance • Monitoring Weather Conditions & Sea Currents • Identifying Sensitive Areas at Risk
1230 – 1245	Break
1245 – 1320	Contingency Planning & Preparedness Components of an Effective Oil Spill Contingency Plan • Importance of Conducting Risk Assessments • Development of Response Strategies • Simulation & Drills for Preparedness
1320 – 1420	Legal & Policy Frameworks Overview of International & Regional Oil Spill Response Laws • Liability & Compensation Mechanisms (e.g., CLC, Fund Conventions) • National Vs. International Jurisdiction • Role of Governmental & Non-Governmental Organizations
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: Monday, 15th of December 2025

0730 – 0830	Containment & Recovery Techniques Use of Booms & Skimmers • Mechanical Recovery Operations & their Challenges • Deployment of Response Vessels • Factors Influencing the Effectiveness of Containment Measures
0830 – 0930	Chemical Dispersants & their Use Mechanisms of Dispersants & their Applications • Environmental Considerations & Toxicity Issues • Operational Guidelines for Dispersant Application • Monitoring & Evaluating Dispersant Effectiveness



0930 – 0945	<i>Break</i>
0945 – 1100	<i>In-Situ Burning</i> <i>Conditions Suitable for In-Situ Burning • Equipment & Safety Protocols • Benefits & Drawbacks of Burning • Case Studies of Successful In-Situ Burning Operations</i>
1100 – 1230	<i>Shoreline Clean-Up Methods</i> <i>Techniques for Cleaning Different Shoreline Types • Challenges in Deploying Shoreline Response Teams • Manual Vs. Mechanical Clean-Up Approaches • Waste Management & Disposal Protocols</i>
1230 – 1245	<i>Break</i>
1245 – 1400	<i>Bioremediation as a Response Tool</i> <i>Natural Vs. Enhanced Bioremediation Techniques • Limitations & Potential Impacts on the Environment • Factors Influencing Microbial Activity • Long-Term Monitoring of Bioremediation Sites</i>
1400 – 1420	<i>Health & Safety in Spill Response</i> <i>Personal Protective Equipment (PPE) Requirements • Safety Measures for Handling Hazardous Materials • Risk Assessment for Response Personnel • Emergency Procedures & First Aid</i>
1420 – 1430	<i>Recap</i> <i>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</i>
1430	<i>Lunch & End of Day Two</i>

Day 3: Tuesday, 16th of December 2025

0730 – 0830	<i>Incident Command System (ICS)</i> <i>Structure & Components of ICS • Roles & Responsibilities of Response Teams • Coordination Between On-Site & Off-Site Response Units • Real-Time Decision-Making Processes</i>
0830 - 0930	<i>Resource Mobilization & Coordination</i> <i>Identifying & Sourcing Response Equipment & Materials • Deployment Logistics & Supply Chain Management • Engaging Specialized Response Teams • International Aid & Support Channels</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>Communication & Public Relations</i> <i>Developing Communication Plans for Stakeholders • Managing Media Relations During Oil Spill Incidents • Ensuring Transparency & Building Public Trust • Crisis Communication Strategies</i>
1100 – 1230	<i>Training & Exercises for Response Teams</i> <i>Importance of Continuous Training & Skill Development • Designing & Implementing Spill Response Drills • Evaluating Performance & Identifying Improvement Areas • Lessons Learned from Past Exercises</i>
1230 – 1245	<i>Break</i>
1245 – 1400	<i>Strategic Use of Technology in Oil Spill Response</i> <i>Latest Advancements in Oil Spill Response Technologies • Use of Drones & Remote Sensing for Real-Time Data • GIS Mapping for Strategic Response Planning • Oil Spill Modeling Software & Predictive Analysis</i>



1400 – 1420	International Collaboration & Support Coordination with International Organizations (e.g., IMO, ITOFF) • Joint Response Exercises & Mutual Aid Agreements • Sharing Best Practices & Lessons Learned Globally • Access to Global Response Resources & Expertise
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: Wednesday, 17th of December 2025

0730 – 0830	Deepwater Horizon Spill: Lessons Learned Overview of the Incident & Its Global Impact • Challenges Faced During Response Operations • Innovations & Advancements Post-Incident • Key Takeaways for Future Spill Response
0830 – 0930	Exxon Valdez Oil Spill Summary of Events & Ecological Damage • Response Efforts & Limitations • Changes in Legislation & Response Protocols • Long-Term Environmental Recovery
0930 – 0945	Break
0945 – 1100	Prestige Oil Spill Incident Analysis & Response Challenges • Role of Dispersants & Mechanical Recovery • Cross-Border Coordination & Collaboration • Socio-Economic Impact & Public Response
1100 – 1230	Recent Oil Spill Responses Analysis of Smaller-Scale Yet Significant Spills • Adaptive Response Techniques & Resource Management • Community Involvement & Local Capacity Building • Highlighting Innovative Approaches to Mitigation
1230 – 1245	Break
1245 – 1400	Common Challenges in Oil Spill Management Resource Limitations & Operational Delays • Weather & Environmental Conditions • Ensuring Effective Collaboration Among Stakeholders • Mitigating the Impacts of Public Misinformation
1400 – 1420	Developing A Post-Spill Review Framework Key Components of a Post-Incident Analysis • Data Collection & Impact Assessment • Review & Improvement of Contingency Plans • Recommendations for Policy & Procedural Enhancements
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: Thursdays, 18th of December 2025

0730 – 0830	Tabletop Exercises & Simulation Scenarios Conducting Realistic Spill Simulation Exercises • Practicing Decision-Making Under Pressure • Reviewing Team Performance & Feedback • Discussion of Simulation Outcomes
0830 – 0930	Hands-On Equipment Handling Demonstration & Usage of Response Tools • Training on Containment & Recovery Equipment • Safety Precautions & Handling Techniques • Conducting Rapid Deployment Drills



0930 – 0945	<i>Break</i>
0945 – 1100	<i>Stakeholder Engagement & Multi-Agency Response</i> <i>Engaging Key Agencies & Stakeholders in Response Planning • Ensuring Roles & Responsibilities Are Clearly Defined • Coordinating A Multi-Agency Response Effort • Building Partnerships with Local Communities</i>
1100 – 1200	<i>Final Certification Assessment</i> <i>Comprehensive Examination Covering Course Material • Group Presentations on Response Plans • Evaluation of Practical & Theoretical Knowledge • Certification Award & Feedback Session</i>
1200 – 1215	<i>Break</i>
1215 – 1530	<i>Developing an Oil Spill Response Action Plan</i> <i>Outlining Action Plans Based on Theoretical Learning • Customizing Response Strategies for Different Scenarios • Creating Action Checklists & Contingency Triggers • Final Review & Presentation of Action Plans</i>
1230 – 1300	<i>Wrap-Up & Next Steps</i> <i>Summary of Key Learning Outcomes • Discussing Ongoing Professional Development • Resources for Continuous Learning in Oil Spill Management • Closing Remarks & Networking Opportunities</i>
1300 - 1315	<i>Course Conclusion</i> <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course</i>
1315 – 1415	COMPETENCY EXAM
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch & End of Course</i>



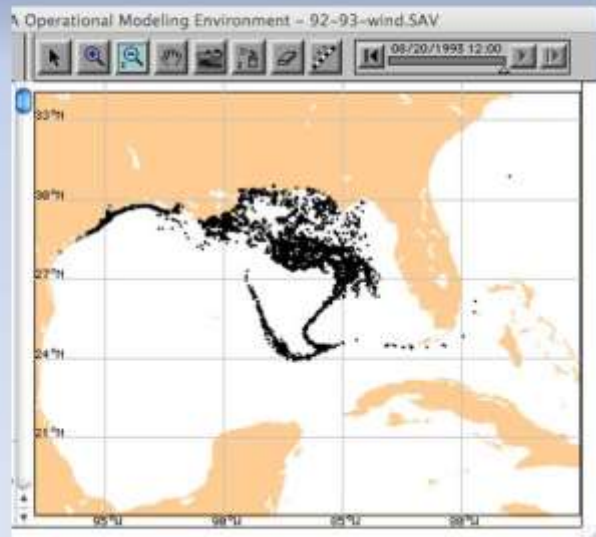
Simulator (Hands-on Practical Sessions)

Practical session will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using the simulator “GNOME Simulator”.

Primary Tool: GNOME

(General NOAA Operational Modeling Environment)

- Lagrangian element (particle) model
- Forcing from external sources:
 - Winds
 - Currents
- Currents:
 - In house model
 - External operational models



GNOME Simulator

Course Coordinator

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