

COURSE OVERVIEW HE0790 Oil Spill & Pollution Control

Course Title

Oil Spill & Pollution Control

Course Date/Venue

Session 1: December 01-05, 2024/TBA Meeting Room, The H Dubai Hotel, Sheikh Zayed Rd - Trade Centre, Dubai, UAE
 Session 2: December 15-19, 2024/TBA Meeting Room, The H Dubai Hotel, Sheikh Zayed Rd - Trade Centre, 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 the knowledge and tools to assist management personnel in the development of oil spill contingency arrangements and to gain the decision-making skills necessary to make immediate and informed decisions during oil spill incidents.

Participants will also be provided with a knowledge of the fate and behavior of spilled oil, the impacts that oil has on the marine environment, the vulnerability of various shoreline types and impact that clean-up operations may have.

The course content is designed to be compatible with the IMO OPRC Model Training Course Level 2, for Supervisors and On-Scene Commanders.

Course Objectives

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

- Get IMO certification in oil spill management and response
- Apply and gain an in-depth knowledge on oil spill management and response including the behavior, fate and effects of oil spills in the marine environment and the best practices in dealing with oil spill
- Implement the proper strategies in dealing with oil spills and employ systematic techniques on oil spill assessment
- Employ oil spill contingency planning to achieve successful emergency response and clean up using chemical dispersants
- Practice oil spill equipment deployment and discover the limitations of containment systems as well as oil recovery devices
- Determine the characteristics of shoreline environmental sensitivity and apply shoreline clean-up techniques as well as alternative response techniques on waste management, storage and disposal
- Manage the clean-up operations on site and implement proper techniques of objective setting measurement and control for the proper development of operational plans and strategies
- Manage and deal with the media and perform other public relations activities that involves making decisions that can have wide ranging implications on the outcome of a response and the reputation of the organization
- Identify liabilities and cost recovery and apply post incident briefing and analysis

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, sample video clips of the instructor’s actual lectures & practical sessions during the course 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 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.

* Haward Technology * CEUs * Haward Technology * CEUs * Haward Technology * CEUs * Haward Technology *



Haward Technology Middle East
Continuing Professional Development (HTME-CPD)

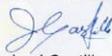
CEUs

CEU Official Transcript of Records

TOR Issuance Date: 14-Nov-21
HTME No. 8667-2014-9020-2555
Participant Name: Abdulsatar Al Otaibi

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE0790	Oil Spill Management & Response (<i>IMO Certification</i>)	10 Nov-14 Nov, 2021	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 Authorized Provider by the International Association for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 800, Herndon, VA 20171, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2013 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 1-2013 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



P.O. Box 26070, Abu Dhabi, United Arab Emirates | Tel.: +971 2 3091 714 | Fax: +971 2 3091 716 | E-mail: info@haward.org | Website: www.haward.org

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Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -

- 
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.

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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 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.

Accommodation

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

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:



Capt. Mohamed Ghanem, MSc, BSc, is a Senior Master Engineer with extensive experience in **Marine Engineering** within **Oil & Gas, Refinery** and **Marine** industry. His expertise widely covers in the areas of **Oil Spill Management & Recovery, Marine Incident Investigation & Root Cause Analysis, Oil Spill Management & Response, Oil Spill Prevention & Control, Oil Spill Combating Operations, Oil Spill Awareness, Petroleum Tanker Vetting & Inspection, Tanker Vetting Survey, Tanker & Marine Terminals Operation, Charter Parties & Laytime, Demurrage & Loss Control, Oil Tanker Operation & Port Management, Global Maritime Distress Safety System (GMDSS), Marine Operations, International Maritime Conventions & Codes, 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 & Gas Marine Terminals, Offshore Marine Operation Management, International Maritime Conventions & Codes, Vessel Hull & Machinery Survey, Oil & Gas Fields Offshore Survey, Oil & Gas Terminals Loading & Discharging, Marine Engineering, Terminal Operations, Seamanship, Shipping Overview, Marine Fire Fighting Equipment, Life Saving, Safety Process, Major Emergency Management & Control, Crisis Management during Oil Spill and Firefighting.** He is currently the **Jack Up Barge Engineer & Captain of ADNOC Drilling** wherein he oversees all the operations onboard the vessel including navigation, maintenance and compliance with local regulations.

During his life career, Capt. 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, Site Engineer, Marine Surveyor, Ship Repair Engineer, Vessel Repairing Engineer, Metal Cutting & Welding Planner, Marine Engineer Onboard, Technical Manager and Maintenance Mechanical Engineer** 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.

Capt. Mohamed has **Master** and **Bachelor** degrees 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.

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 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	<i>Registration & Coffee</i>
0800 – 0815	<i>Welcome & Introduction</i>
0815 – 0830	PRE-TEST
0830 – 0930	<i>The Behavior, Fate & Effects of Oil Spills in the Marine Environment</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>An Overview of Oil Spill Response Strategies</i>
1100 – 1200	<i>Oil Spill Assessment Techniques</i> <i>Group Exercise</i>
1200 – 1215	<i>Break</i>
1215 – 1420	<i>Oil Spill Contingency Planning</i>
1420 – 1430	Recap
1430	<i>Lunch & End of Day One</i>

Day 2

0730 – 0930	<i>The Use of Dispersants</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>The Deployment & Limitations of Containment Systems</i>
1100 – 1200	<i>Oil Recovery Devices</i>
1200 – 1215	<i>Break</i>
1215 – 1400	<i>Shoreline Environmental Sensitivity</i>
1400 – 1420	<i>Group Exercise</i>
1420 – 1430	Recap
1430	<i>Lunch & End of Day Two</i>

Day 3

0730 – 0930	<i>Shoreline Clean-up Techniques</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>Alternative Response Techniques</i>
1100 – 1200	<i>Waste Management, Storage & Disposal</i>
1200 – 1215	<i>Break</i>



1215 – 1400	Managing Clean-up Operations Objective Setting Measurement & Control
1400 – 1420	Clean-up Site Safety
1420 – 1430	Recap
1430	Lunch & End of Day Three

Day 4

0730 – 0930	Dealing with the Media & Public Relations
0930 – 0945	Break
0945 – 1100	Response Deactivation
1100 – 1200	Liabilities & Cost Recovery
1200 – 1215	Break
1215 – 1400	Post Incident Briefing & Analysis
1400 – 1420	Case Histories
1420 – 1430	Recap
1430	Lunch & End of Day Four

Day 5

0730 – 0830	Liabilities & Cost Recovery
0830 – 0930	Post Incident Briefing & Analyses
0930 – 0945	Break
0945 – 1045	Case Histories
1045 – 1200	Table Exercises, “Quantification Calculator/Palmalfi Exercise”
1200 – 1215	Break
1215 – 1300	Review, Question & Answer Session Certificate Presentation
1300 – 1315	Workshop Conclusion
1315 – 1415	COMPETENCY EXAM
1415 – 1430	Presentation of Workshop Certificates
1430	Lunch & End of Workshop

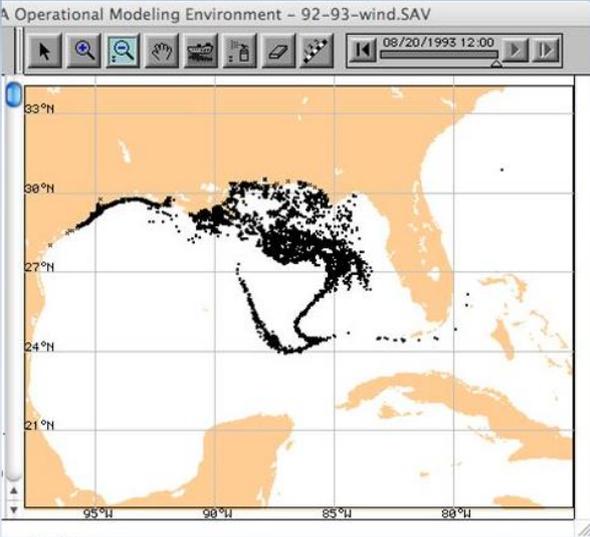
Simulator (Hands-on Practical Sessions)

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

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