

**COURSE OVERVIEW HE1931**  
**Oil Spill Equipment Deployment Assignment**

**Course Title**

Oil Spill Equipment Deployment Assignment

**Course Date/Venue**

Session 1: September 01-05, 2024/TBA  
 Meeting Room, The H Dubai Hotel,  
 Sheikh Zayed Road, Dubai, UAE  
 Session 2: November 10-14, 2024/TBA  
 Meeting Room, The H Dubai Hotel,  
 Sheikh Zayed Road, Dubai, UAE



**Course Reference**

HE1931



**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 Oil Spill Equipment Deployment Assignment. It covers the physical and chemical properties of oil spills; the various sources of oil spills including drilling, transportation and storage; the potential risks and the environmental impact of oil spills; the global and regional oil spill response protocols and guidelines for handling oil spills; the different types of equipment used in oil spill response; and the safety protocols and personal protective equipment (PPE) required during oil spill responses.



Further, the course will also discuss the detailed techniques on the deployment and operation of booms and skimmers; the types and applications of sorbents and chemical dispersants; how oil behaves in different water conditions; the advanced techniques for using booms in complex scenarios; carrying out remote sensing and surveillance by utilizing drones and satellite imagery to monitor oil spills; integrating IT tools in spill response; and how software and response tools can optimize spill management.

During this interactive course, participants will learn the effective use of skimmers in different environments; establishing roles and communication hierarchies during a spill response; working with local and international agencies during oil spill responses; the best practices for communicating with the public and affected communities; the logistics management in spill response and handling stress and health considerations during crises; the performance evaluation of equipment and personnel by assessing the effectiveness of the response effort; the post-spill impact assessment and recovery to evaluate environmental damage and recovery processes; the legal implications and compliance requirements post-spill; exploring new technologies in oil spill response; and developing personal action plan.

### **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 equipment deployment assignment
- Discuss the physical and chemical properties of oil spills and recognize the various sources of oil spills including drilling, transportation and storage
- Identify potential risks and the environmental impact of oil spills as well as review global and regional oil spill response protocols and guidelines for handling oil spills
- Recognize the different types of equipment used in oil spill response and apply safety protocols and personal protective equipment (PPE) required during oil spill responses
- Carryout detailed techniques on the deployment and operation of booms and skimmers and identify the types and applications of sorbents and chemical dispersants
- Explain how oil behaves in different water conditions and apply advanced techniques for using booms in complex scenarios
- Carryout remote sensing and surveillance by utilizing drones and satellite imagery to monitor oil spills
- Integrate IT tools in spill response and discuss how software and response tools can optimize spill management
- Describe the effective use of skimmers in different environments and establish roles and communication hierarchies during a spill response
- Work with local and international agencies during oil spill responses and apply best practices for communicating with the public and affected communities
- Employ logistics management in spill response and handle stress and health considerations during crises
- Illustrate performance evaluation of equipment and personnel by assessing the effectiveness of the response effort
- Apply post-spill impact assessment and recovery to evaluate environmental damage and recovery processes
- Discuss the legal implications and compliance requirements post-spill, explore new technologies in oil spill response and develop personal action plan

### **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 equipment deployment assignment for supervisors, on-scene commanders, administrators, 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

### **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\$ 5,500** 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 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


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 **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 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.

### 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

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	<b>PRE-TEST</b>
0830 – 0930	<b>Overview of Oil Spill Dynamics:</b> Understanding the Physical & Chemical Properties of Oil Spills
0930 – 0945	Break
0945 – 1030	<b>Types of Oil Spills:</b> Discussion on Various Sources of Oil Spills Including Drilling Transportation & Storage
1030 – 1130	<b>Risk Assessment in Oil Spill Scenarios:</b> Identifying Potential Risks & the Environmental Impact of Oil Spills
1130 – 1215	<b>Global &amp; Regional Oil Spill Response Protocols:</b> Review of International & Local Guidelines for Handling Oil Spills
1215 – 1230	Break
1230 – 1330	<b>Equipment Overview:</b> The Different Types of Equipment used in Oil Spill Response
1330 – 1420	<b>Safety First:</b> Safety Protocols & Personal Protective Equipment (PPE) Required During Oil Spill Responses
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day One

#### Day 2

0730 – 0830	<b>Deployment of Booms &amp; Skimmers:</b> Detailed Techniques on the Deployment & Operation of Booms & Skimmers
0830 – 0930	<b>Use of Sorbents &amp; Dispersants:</b> Understanding the Types & Applications of Sorbents & Chemical Dispersants
0930 – 0945	Break
0945 – 1100	<b>In-Water Behavior of Oil:</b> Studying how Oil Behaves in Different Water Conditions
1100 – 1230	<b>Simulation of Spill Scenarios:</b> Conducting Mock Drills to Simulate Oil Spill Scenarios
1230 – 1245	Break
1245 – 1420	<b>Debrief &amp; Learning from Simulation:</b> Analysis of the Exercise to Identify Strengths & Areas for Improvement
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Two

#### Day 3

0730 – 0830	<b>Advanced Booming Techniques:</b> Detailed Instruction on Advanced Techniques for Using Booms in Complex Scenarios
0830 – 0930	<b>Remote Sensing &amp; Surveillance:</b> Utilizing Drones & Satellite Imagery to Monitor Oil Spills
0930 – 0945	Break



0945 – 1100	<b>Integration of IT Tools in Spill Response:</b> How Software & Response Tools can Optimize Spill Management
1100 – 1215	<b>Effective use of Skimmers in Different Environments:</b> Customizing Skimmer Operations Based on Environmental Factors
1215 – 1230	Break
1230 – 1330	<b>Group Activity: Strategy Development:</b> Teams Develop Response Strategies Based on Given Scenarios
1330 – 1420	<b>Case Study Review:</b> Discussion of Historical Oil Spill Incidents & Lessons Learned
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Three

**Day 4**

0730 – 0830	<b>Command &amp; Control Structures:</b> Establishing Roles & Communication Hierarchies During a Spill Response
0830 – 0930	<b>Interagency Coordination:</b> Working with Local & International Agencies During Oil Spill Responses
0930 – 0945	Break
0945 – 1100	<b>Community Engagement &amp; Public Communication:</b> Best Practices for Communicating with the Public & Affected Communities
1100 – 1215	<b>Logistics Management in Spill Response:</b> Ensuring Timely Supply & Setup of Equipment & Resources
1215 – 1230	Break
1230 – 1330	<b>Workshop:</b> Communication Drills: Practical Exercises in Communication & Coordination
1330 – 1420	<b>Critical Incident Stress Management:</b> Handling Stress & Health Considerations During Crises
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Four

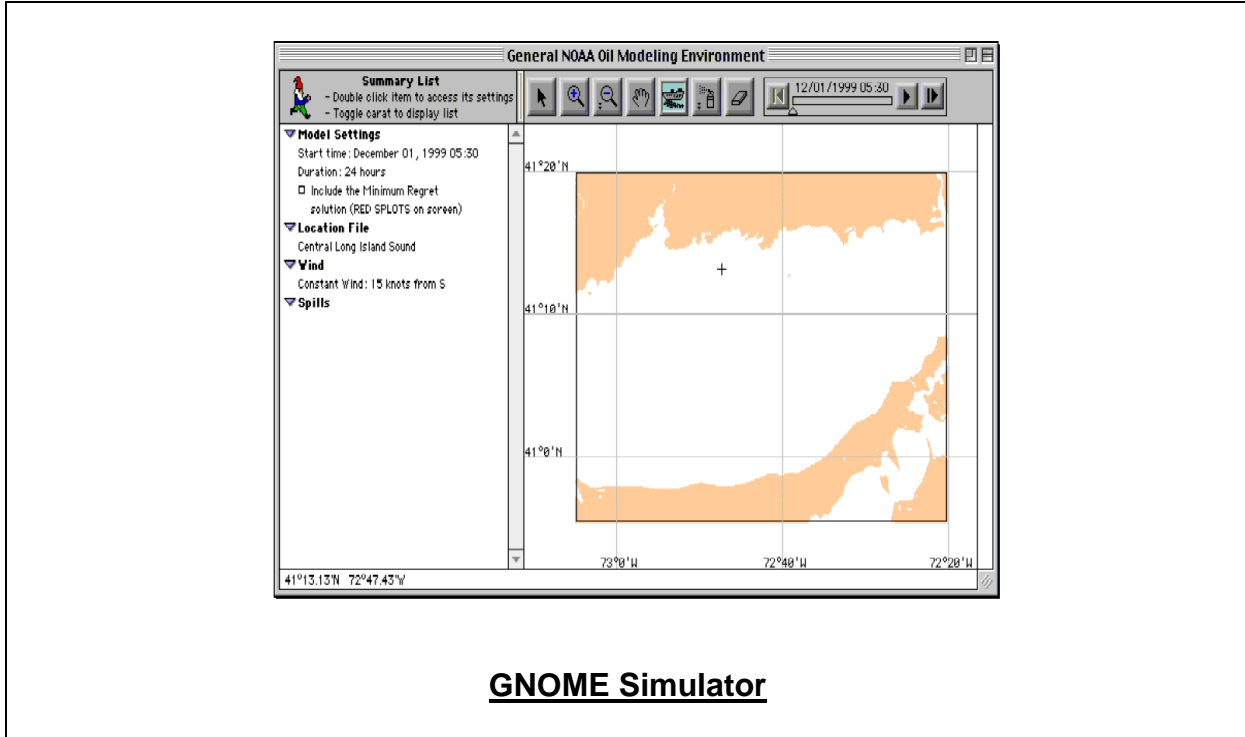
**Day 5**

0730 – 0830	<b>Performance Evaluation of Equipment &amp; Personnel:</b> Methods for Assessing the Effectiveness of the Response Effort
0830 – 0930	<b>Post-Spill Impact Assessment &amp; Recovery:</b> Techniques to Evaluate Environmental Damage & Recovery Processes
0930 – 0945	Break
0945 – 1100	<b>Legal &amp; Regulatory Framework:</b> Understanding the Legal Implications & Compliance Requirements Post-Spill
1100 – 1230	<b>Innovation in Spill Response Technology:</b> Exploring New Technologies in Oil Spill Response
1230 – 1245	Break
1245 – 1345	<b>Developing a Personal Action Plan:</b> Each Participant Develops a Personal Action Plan Based on Learnings
1345 – 1400	<b>Course Conclusion</b>
1400 – 1415	<b>POST-TEST</b>
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course



**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”.



**Course Coordinator**

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