COURSE OVERVIEW HE0790
Oil Spill & Pollution Control

Course Title
Oil Spill & Pollution Control

Course Date/Venue
Please refer to page 3

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, ITOPF); 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 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, ITOPF)
- 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 Date/Venue

Sessions	Date	Venue
1	July 06-10, 2025	Olivine Meeting Room, Fairmont Nile City, Cairo, Egypt
2	October 12-16, 2025	Safir Meeting Room, Divan Istanbul, Turkey
3	December 14-18, 2025	Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE

Course Fee

Cairo	**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
Istanbul	**US$ 8,000** per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day
Dubai	**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.

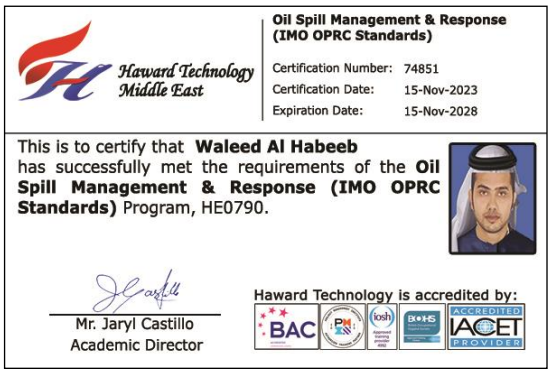
Course Certificate(s)

(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.

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
HE0790	Oil Spill Management & Response *(IMO OPRC Standards)*	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

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

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**. 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:

Mr. Mohamed Ghanem, MSc, BSc, is a **Senior HSE & Master Marine Engineer** with extensive experience in **Health & Safety and Marine Engineering** within **Oil & Gas, Refinery** and **Marine** industry. His expertise widely covers in the areas of **Oil Spill** Management & Recovery, **Oil Spill** Management & Response, **Oil Spill** Prevention & Control, **Oil Spill** Combating Operations, **Oil Spill** Awareness, **Oil Spill** Prevention & Control, **Safe Isolation of Plant & Equipment**, **HAZOP & HAZID**, **HAZMAT & HAZCOM** Storage & Disposal, As Low as Reasonably Practicable (**ALARP**), Process Hazard Analysis (**PHA**), Process Safety Management (**PSM**), **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, **Global Maritime Distress Safety System** (**GMDSS**), **Marine** Operations, **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** Management & Response, **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 oversee all the operations onboard the vessel including navigation, maintenance and compliance with local regulations.

During his life career, Mr. 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**, **HSE Engineer Site Engineer**, **Marine Surveyor**, **Ship Repair Engineer**, **Vessel Repairing Engineer**, **Metal Cutting & Welding Planner**, **HSE Specialist**, **HSE Safety Officer**, **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.

Mr. Mohamed has **Master's** and **Bachelor'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 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 – 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

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

Day 3

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

1400 – 1420	***International Collaboration & Support*** *Coordination with International Organizations (e.g., IMO, ITOPF) • 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

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*

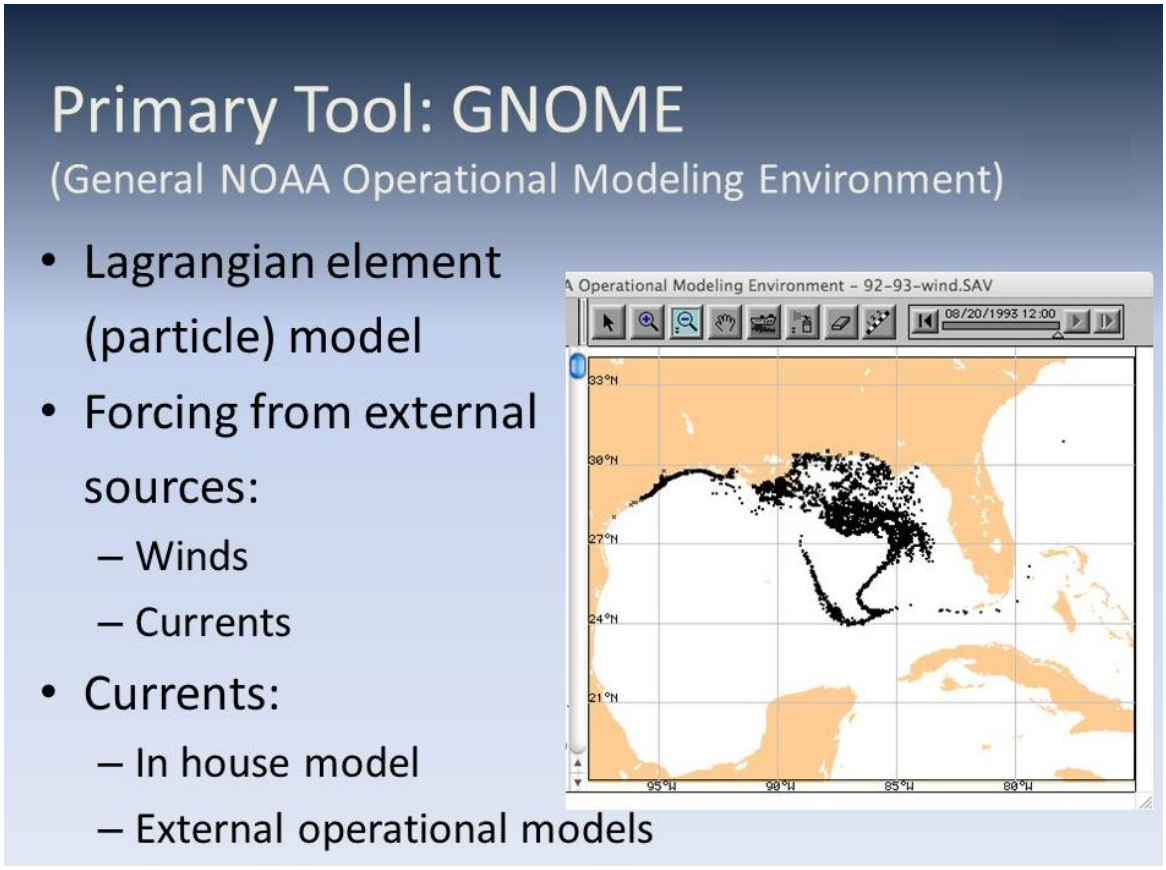
Day 5

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



GNOME Simulator

Course Coordinator

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