MERCURY

Environmental Awareness & Spill Response (MARPOL, OSPAR)

9 – 13 November 2026
Barcelona (Spain)



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Environmental Awareness & Spill Response (MARPOL, OSPAR)

Ref: 16311_1078673 **Date:** 9 – 13 November 2026 **Location:** Barcelona (Spain) **Fees:** 5600 Euro

Introduction:

The Environmental Awareness and Spill Response MARPOL, OSPAR course equips professionals with the essential knowledge and skills needed to manage marine pollution and comply with international environmental regulations. The course emphasizes the importance of environmental protection, particularly within maritime operations, where the risks of spills are high. Participants will gain insights into the MARPOL Convention and OSPAR agreements, which form the backbone of international marine pollution control standards.

Through structured learning, the Environmental Awareness and Spill Response MARPOL, OSPAR training highlights both preventive measures and response strategies for effectively handling accidental discharges. It focuses on practical applications in oil, chemical, and waste spill management while fostering sustainable operational practices. It also ensures professionals understand their legal obligations and the environmental impact of non-compliance. Participants will contribute to safe and environmentally responsible maritime activities.

Targeted Groups:

This Environmental Awareness and Spill Response MARPOL, OSPAR training targets professionals seeking specialized knowledge and skills:

- Maritime officers working on ships and offshore platforms.
- Environmental managers in the oil, gas, and shipping industries.
- Port authority officials and harbor safety inspectors.
- Emergency response and spill control teams.
- Compliance officers are responsible for ensuring adherence to environmental standards.
- HSE Health, Safety & Environment specialists in marine operations.
- Marine surveyors and auditors are monitoring pollution control.
- Training coordinators in maritime academies.
- Policy advisors working on marine environmental regulations.

Targeted Competencies:

Participants will gain the following competencies during the Environmental Awareness and Spill Response MARPOL, OSPAR program:

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- Ability to apply MARPOL and OSPAR requirements.
- Skills in identifying and managing marine pollution risks.
- Proficiency in emergency spill response planning.
- Competence in analyzing environmental impacts.
- Knowledge of hazardous waste handling.
- Effective communication with regulators and stakeholders.
- Strong decision-making under pressure.
- Capability in compliance documentation.
- Strategic thinking in sustainability practices.
- Leadership in environmental protection initiatives.

Course Objectives:

Participants will achieve the following objectives by completing the Environmental Awareness and Spill Response MARPOL, OSPAR course:

- Understand the principles of MARPOL and OSPAR conventions.
- Identify pollution sources and categorize spill types.
- Analyze risks associated with marine operations.
- Apply preventive measures to minimize pollution incidents.
- Evaluate environmental impacts of spills.
- Interpret international and regional regulations.
- Demonstrate knowledge of shipboard waste management practices.
- Plan effective spill response operations.
- Use environmental monitoring and reporting techniques.
- Assess emergency preparedness and response strategies.
- Implement corrective actions after spill events.
- Enhance decision-making in high-pressure situations.
- Collaborate with authorities and stakeholders effectively.
- Practice documentation and compliance reporting.
- Promote sustainable marine environmental management.
- Build resilience against future pollution challenges.

Studying Scenarios:

In this Environmental Awareness and Spill Response MARPOL, OSPAR training, participants will develop their skills through the analysis of the following scenarios:

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- Responding to oil spills during ship-to-ship transfer.
- Managing ballast water discharge incidents.
- Handling chemical leaks in port facilities.
- Implementing shipboard garbage management plans.
- Coordinating multi-agency spill response exercises.
- Investigating marine pollution from offshore platforms.
- Reporting non-compliance to regulatory bodies.
- Simulating real-time emergency communication chains.
- Conducting risk assessment after spill incidents.
- Evaluating lessons learned from past maritime accidents.

Course Content:

Unit 1: Fundamentals of Marine Environmental Awareness:

- Overview of global marine environmental challenges.
- Importance of protecting marine ecosystems.
- Introduction to international environmental conventions.
- The role of MARPOL in marine pollution prevention.
- The scope and objectives of OSPAR agreements.
- Categories of marine pollutants and their impacts.
- Sources of oil, chemical, and waste discharges.
- The environmental cost of non-compliance.
- Best practices for environmental stewardship at sea.

Unit 2: MARPOL and OSPAR Regulatory Frameworks:

- Structure and annexes of the MARPOL Convention.
- OSPAR Commission and its regulatory framework.
- Pollution prevention requirements under MARPOL Annex I-VI.
- Waste management obligations for ships.
- Regional cooperation under OSPAR.
- Reporting procedures for accidental discharges.
- Legal consequences of non-compliance.
- Responsibilities of shipowners and operators.
- Integration of MARPOL and OSPAR in national policies.

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Unit 3: Spill Risk Assessment and Preparedness:

- Identifying pollution risks in maritime operations.
- Hazard analysis for oil and chemical cargoes.
- Emergency preparedness planning.
- Equipment and technology for spill response.
- Developing contingency plans for ports and vessels.
- The role of training and drills in preparedness.
- Simulation models for predicting spill behavior.
- Cooperation with local and regional response agencies.
- Resource allocation for emergency response.

Unit 4: Spill Response Techniques and Operations:

- Principles of spill containment and recovery.
- Mechanical methods of oil spill clean-up.
- Use of dispersants and chemical treatments.
- Shoreline protection and restoration.
- Waste segregation during spill response.
- Safety procedures during emergency operations.
- Communication protocols during spill incidents.
- Evaluating the effectiveness of response measures.
- Case studies of major spill response operations.

Unit 5: Environmental Monitoring and Sustainable Practices:

- Environmental monitoring methods for marine areas.
- Sampling and laboratory analysis after spills.
- Long-term ecological recovery strategies.
- Integrating sustainability in shipping practices.
- Shipboard energy efficiency management plans.
- Reducing greenhouse gas emissions in maritime operations.
- Circular economy practices in waste management.
- Future trends in marine environmental protection.
- Building a culture of continuous environmental awareness.

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Final Insights & Key Takeaways:

This course provides a solid understanding of environmental protection and marine pollution response under MARPOL and OSPAR. Participants will leave with the skills to assess, prevent, and respond to spills effectively. They will also gain knowledge of international compliance obligations and best practices for sustainable marine operations. Ultimately, the training equips professionals to cultivate an environmentally responsible culture within the maritime industry.