Strategic Marine Pollution Control and Coastal Management Training Course



21 - 25 Dec 2026

Casablanca

4500 € (Per Person)

Ref: #ENV2612_275367

Course Introduction / Overview:

The escalating pressures on our marine and coastal environments demand a new generation of professionals equipped with strategic, integrated management skills. This course addresses the critical intersection of marine pollution prevention and sustainable coastal zone management, providing a comprehensive framework for tackling complex environmental challenges. From understanding the sources and fates of pollutants like plastics, oil, and nutrients to mastering the principles of Integrated Coastal Zone Management (ICZM), participants will gain a deep, actionable understanding of the field. Drawing on the foundational work of experts like Dr. Biliana Cicin-Sain and seminal texts such as "Integrated Coastal and Ocean Management: Concepts and Practices", the curriculum emphasizes a holistic approach. It moves beyond simple compliance to foster strategic thinking, enabling participants to design and implement effective policies, utilize modern control technologies, and promote coastal resilience in the face of climate change. BIG BEN Training Center has designed this program to empower professionals to safeguard our vital marine resources, ensuring their long-term health and economic viability for future generations. This is an essential training for anyone committed to the stewardship of our oceans and coastlines.

Target Audience / This training course is suitable for:

- Environmental Managers and Officers.
- Coastal Zone Planners and Managers.
- Marine Biologists and Conservationists.
- Port and Harbor Authority Staff.
- Government Regulators and Policymakers.
- Oil and Gas Industry Environmental Professionals.
- Shipping and Maritime Operations Managers.
- Sustainability and CSR Professionals.
- Environmental Consultants.
- Urban and Regional Planners.
- Wastewater Treatment Plant Managers.
- Fisheries and Aquaculture Managers.

Target Sectors and Industries:

- Oil and Gas Exploration and Production.
- Maritime Shipping and Logistics.
- Commercial Fishing and Aquaculture.
- Coastal Tourism and Hospitality.
- Port and Harbor Operations.
- Coastal Real Estate and Development.
- Waste Management and Recycling.
- Environmental Consulting Services.
- Governmental agencies and public sector bodies responsible for environmental protection and planning.
- Non-Governmental Organizations (NGOs) focused on marine conservation.

Target Organizations Departments:

- Environmental, Health, and Safety (EHS).
- Sustainability and Corporate Social Responsibility (CSR).
- Operations and Facility Management.
- Strategic Planning and Development.
- Regulatory Compliance and Legal Affairs.
- Marine Operations.
- Research and Development.
- Public and Government Relations.
- Urban and Environmental Planning.

Course Offerings:

By the end of this course, the participants will have able to:

- Analyze the primary sources, pathways, and ecological impacts of marine pollution.
- Develop comprehensive Integrated Coastal Zone Management (ICZM) plans.
- Apply international regulations and conventions, such as MARPOL and UNCLOS, to real-world scenarios.
- Evaluate and select appropriate technologies for pollution prevention and response, including oil spill containment and ballast water management.
- Conduct effective Environmental Impact Assessments (EIAs) for coastal development projects.
- Design strategies for mitigating the effects of climate change on coastal zones, such as sea-level rise and erosion.
- Implement marine spatial planning (MSP) techniques to balance competing uses of marine areas.
- Formulate policies for sustainable coastal tourism and blue economy initiatives.
- Engage diverse stakeholders in collaborative coastal management processes.
- Develop monitoring programs to assess the health of coastal ecosystems and the effectiveness of management interventions.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, interactive, and highly practical, ensuring that participants can immediately apply their learning. This course moves beyond traditional lectures to foster a dynamic learning environment built on a foundation of real-world application. A significant portion of the training is dedicated to the analysis of detailed case studies, examining both successful coastal management initiatives and environmental disasters to extract critical lessons. Participants will engage in collaborative group workshops and simulation exercises, where they will tackle complex problems, such as developing a pollution response plan or mediating stakeholder conflicts in a coastal development project. Interactive sessions, facilitated discussions, and expert-led presentations encourage the sharing of diverse perspectives and experiences. Continuous feedback is provided by the instructor to guide learning and skill development. This hands-on, problem-solving approach ensures that participants not only understand the theories of marine pollution control and coastal management but also master the practical skills needed to implement effective strategies in their own organizations.

Course Agenda (Course Units):

Unit One: Foundations of Marine Pollution and Coastal Ecosystems

- Introduction to Marine and Coastal Environments.
- Major Categories of Marine Pollutants: Plastics, Oil, Chemicals, and Nutrients.
- Sources and Transport Pathways of Pollution.
- Fundamentals of Oceanography and Coastal Processes.
- Ecological Impacts of Pollution on Marine Life and Habitats.
- Key Concepts in Ecotoxicology.
- Introduction to Coastal Zone Management (CZM).

Unit Two: International Legal Frameworks and Policy

- The UN Convention on the Law of the Sea (UNCLOS).
- The MARPOL Convention for the Prevention of Pollution from Ships.
- The London Convention and Protocol on Ocean Dumping.
- Ballast Water Management Convention.
- Regional Seas Programmes and Conventions.
- National Environmental Policy and Legislation.
- The Role of Stakeholder Engagement in Policy Development.

Unit Three: Pollution Prevention and Response Strategies

- Oil Spill Prevention, Contingency Planning, and Response Technologies.
- Management and Mitigation of Marine Debris and Microplastics.
- Control of Land-Based Sources of Pollution and Eutrophication.
- Advanced Wastewater Treatment for Coastal Discharges.
- Best Practices in Ballast Water Treatment and Management.
- Sustainable Port Environmental Management Systems.
- Circular Economy Principles for Marine Resource Management.

Unit Four: Integrated Coastal Zone Management (ICZM) in Practice

- Principles and Processes of Integrated Coastal Zone Management (ICZM).
- Marine Spatial Planning (MSP) for Sustainable Use.
- Conducting Environmental Impact Assessments (EIA) for Coastal Projects.
- Coastal Hazard Assessment and Risk Management.
- Climate Change Adaptation and Coastal Resilience Strategies.
- Tools for Coastal Monitoring: Remote Sensing and GIS.
- Community-Based Coastal Management Models.

Unit Five: Advanced Topics in Sustainable Coastal Development

- The Principles of the Blue Economy.
- Ecosystem-Based Management Approaches.
- Techniques for Coastal Habitat Restoration: Mangroves, Coral Reefs, and Seagrass Beds.
- Sustainable Fisheries and Aquaculture Management.
- Designing and Managing Marine Protected Areas (MPAs).
- The Future of Ocean Governance and Emerging Challenges.
- Developing a Strategic Action Plan for a Coastal Area.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

Considering the conflicting economic and environmental pressures on coastal zones, how can the principles of the 'blue economy' be implemented without compromising ecological integrity for future generations?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself through its strategic and integrative approach, moving beyond a narrow focus on pollution to embrace the entire ecosystem of coastal zone management. While many programs may cover pollution control in isolation, this training course synthesizes policy, advanced science, and practical management into a single, cohesive framework. It places a strong emphasis on proactive and preventative strategies, such as Marine Spatial Planning and Integrated Coastal Zone Management, rather than purely reactive cleanup measures. A key differentiator is the deep integration of climate change resilience and adaptation, recognizing that modern coastal management is inseparable from addressing long-term environmental shifts. The curriculum is built around complex, real-world case studies that challenge participants to navigate the intricate balance between economic development, social well-being, and ecological preservation. By focusing on the development of strategic decision-making skills, the course prepares professionals not just to manage current problems but to anticipate and shape a sustainable future for our vital coastal and marine environments.