



**Health, Safety
Security & Environment**



SCANDINAVIAN ACADEMY
Training and Development

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Course: Marine Pollution and Management

Code	City	hotel	Start	End	price	Hours
494	Zurich (Switzerland)	Hotel Meeting Room	2024-07-22	2024-07-26	5450 €	25

Why Choose this Course?

Marine pollution prevention these days is a serious responsibility for everyone involved in the maritime or offshore industries. This includes offshore and onshore energy production sector, on-shore shipping personnel and shipping transport companies. They all have to fulfil the important duty to protect the marine environment.

This course provides updated information and the knowledge of various aspects of marine pollution and the ways and methods of its prevention. The course will present the detailed analysis of various sources of pollution, best practices and methodologies for pollution clean-up and the measures as a response to emergencies and accidents. The course also includes explanation of marine pollution legal consequences and liabilities.

The course will feature:

- Marine pollution causes and effects
- Ballast water and other marine pollutants
- Oil pollution and offshore activities
- Surveillance, monitoring, measurement and management systems
- Legal issues, non-compliance with international regulations

What are the Goals?

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

- Understand numerous aspects of the marine pollution problems.
- Develop familiarity with regulations & compliance issues according to requirements of international documents.
- Use available technologies & strategies for marine pollution prevention.
- Plan & implement measures aimed at reducing the risk of serious environmental impact.

Who is this Course for?

This course is designed to benefit different levels of Technical and Administrative Personnel in the industry and government who deal with and manage problems of marine pollution, marine transport and offshore energy production operations:



- Managers and environment supervisors from oil and gas production industry
- Professionals from oil and gas transport companies
- Administrators from government departments dealing with maritime transport and offshore operations
- Technical professionals in charge of harbour operation & management

How will this be Presented?

This course will be conducted along workshop principles which will combine lectures with active delegate participation including problem solving and discussions. Several practical examples will be presented, and the focus will be on technical principles and clear technical reasoning.

Workshops will include case studies and will be presented with explanation of technical measures necessary for efficient managing of marine pollution problems. Various examples from real-life technical practice will be included and combined with video animations to help gain the confidence in making right decision regarding efficient emergency response measures in the given situation.

The Course Content

Day One

Marine Pollution

- Marine pollution definition: types and environmental impacts
- Oil pollution and impact of oil spill
- Heavy metals: dangers and hazards
- Wastes: solid garbage and liquid sewage
- Pollution risks from ships : incidents and assessment
- Economic losses from marine pollution

Day Two

Ballast Water and Other Marine Pollutants

- Environmental threats from ballast water
- International maritime dangerous goods (IMDG)
- Dumping of ship wastes and other materials
- Bilge water / waste oil operational management
- Ship scrapping and recycling
- Waste management operations

Day Three



Methods of Surveillance

- International Bodies: IMP, MEPC, MARPOL
- Objectives of surveying marine resources
- Planning considerations: sites, stations and samples
- Sample size and number, statistical requirements
- Analysis tools and techniques
- Compatibility of survey methodologies

Day Four

Management Systems

- **ISO 14000 series and environmental management**
- Contingency planning and emergency management
- Marine pollution preparedness and response
- Methods of intervention and clean-up technologies
- Port reception facilities according to IMO
- Human element: training and certification

Day Five

Legal Issues, Liability and Insurance

- Criminal liability of persons involved: crew, ship-owner, charterer
- Accident investigation and surveys
- Claims: International Oil Pollution Compensation (IOPC) Funds
- United Nations Convention on Law of Sea (UNCLOS)
- Small Tanker Oil Pollution Indemnification Agreement (STOPIA)
- Tanker Oil Pollution Indemnification Agreement (TOPIA)



The Scandinavian Academy employs modern methods in training and skills development, enhancing the efficiency of human resource development. We follow these practices:

- **Theoretical Lectures:**
 - We deliver knowledge through advanced presentations such as PowerPoint and visual materials, including videos and short films.
- **Scientific Assessment:**
 - We evaluate trainees skills before and after the course to ensure their progress.
- **Brainstorming and Interaction:**
 - We encourage active participation through brainstorming sessions and applying concepts through role play.
- **Practical Cases:**
 - We provide practical cases that align with the scientific content and the participants specific needs.
- **Examinations:**
 - Tests are conducted at the end of the program to assess knowledge retention.
- **Educational Materials:**
 - We provide both printed and digital scientific and practical materials to participants.
- **Attendance and Final Result Reports:**
 - We prepare detailed attendance reports for participants and offer a comprehensive program evaluation.
- **Professionals and Experts:**
 - The programs scientific content is prepared by the best professors and trainers in various fields.
- **Professional Completion Certificate:**
 - Participants receive a professional completion certificate issued by the Scandinavian Academy for Training and Development in the Kingdom of Sweden, with the option for international authentication.
- **Program Timings:**
 - Training programs are held from 10:00 AM to 2:00 PM and include buffet sessions for light meals during lectures.