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## Course: Oil and Gas Marine Terminals

Code	City	Hotel	Start	End	Price	Language - Hours
539	Frankfurt (Germany)	Hotel Meeting	2025-05-12	2025-05-23	9450 €	En - 50

### Course Introduction:

Oil and gas marine terminals are crucial for the safe and efficient transportation, storage, and handling of petroleum products. Managing these terminals requires specialized knowledge of international regulations, operational safety, environmental protection, and risk management strategies. This 10-day intensive training program provides participants with a comprehensive understanding of the key operational, safety, and environmental aspects of marine terminals in the oil and gas industry.

Through a combination of theoretical instruction, real-world case studies, and hands-on exercises, attendees will develop the expertise needed to manage and operate marine terminals effectively while ensuring compliance with global safety and environmental standards.

### Course Objectives:

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

- Understand the fundamental principles of oil and gas marine terminal operations.
- Apply best practices for the safe handling and storage of petroleum products.
- Implement risk management strategies to prevent operational hazards.
- Ensure compliance with international regulations such as IMO, MARPOL, and ISGOTT.
- Develop emergency response plans for oil spills and other marine terminal incidents.



- Optimize terminal logistics, berthing operations, and tanker handling procedures.

## **Target Audience:**

- Marine Terminal Operators and Supervisors
- Oil and Gas Industry Professionals
- HSE Officers and Environmental Specialists
- Port and Terminal Managers
- Shipping and Logistics Coordinators
- Regulatory and Compliance Officers

## **Course Outline**

### **Day 1: Introduction to Oil and Gas Marine Terminals**

- Overview of oil and gas terminal operations
- Types of marine terminals and storage facilities
- Role of terminals in the global energy supply chain
- Key operational challenges and industry trends

### **Day 2: International Regulations and Compliance**

- IMO, MARPOL, and ISGOTT guidelines for marine terminals
- Environmental protection regulations and best practices
- Health and safety compliance for terminal operations
- Case study: Regulatory compliance in major terminals

### **Day 3: Tanker Operations and Berthing Procedures**

- Types of oil tankers and their classifications
- Tanker berthing and mooring procedures
- Ship-to-shore interface and communication protocols



- Best practices for cargo transfer operations

#### **Day 4: Terminal Safety and Risk Management**

- Hazard identification and risk assessment techniques
- Fire prevention and emergency response planning
- Gas detection, ventilation, and hazardous area classification
- Case study: Lessons from past marine terminal accidents

#### **Day 5: Cargo Handling and Storage Operations**

- Loading and unloading procedures for petroleum products
- Vapor recovery systems and emissions control
- Storage tank maintenance and inspection practices
- Spill containment and response measures

#### **Day 6: Terminal Equipment and Infrastructure Management**

- Pumps, pipelines, and loading arms operations
- Maintenance strategies for critical terminal infrastructure
- Automation and digital technologies in terminal management
- Hands-on workshop: Equipment inspection and troubleshooting

#### **Day 7: Emergency Preparedness and Oil Spill Response**

- Oil spill prevention, control, and countermeasures (SPCC)
- Emergency response plans and coordination with authorities
- Crisis management and incident investigation
- Practical drill: Simulated oil spill response exercise



## **Day 8: Logistics, Supply Chain, and Terminal Economics**

- Managing terminal scheduling and cargo flow optimization
- Cost control and budgeting for terminal operations
- Supply chain risk management in oil and gas logistics
- Case study: Economic analysis of terminal operations

## **Day 9: Security and Environmental Considerations**

- ISPS Code and terminal security protocols
- Preventing smuggling, piracy, and unauthorized access
- Environmental sustainability initiatives for marine terminals
- Workshop: Developing a terminal security and sustainability plan

## **Day 10: Final Assessment and Practical Evaluation**

- Review of key concepts and industry best practices
- Risk management simulation exercise
- Group project: Designing a comprehensive marine terminal safety plan



The Scandinavian Academy for Training and Development adopts the latest scientific and professional methodologies in training and human resource development, aiming to enhance the efficiency of individuals and organizations. Training programs are delivered through a comprehensive approach that includes:

- Theoretical lectures supported by PowerPoint presentations and visual materials (videos and short films).
- Scientific evaluation of participants before and after the program to measure progress and knowledge acquisition.
- Brainstorming sessions and practical role-playing to simulate real-life scenarios.
- Case studies tailored to align with the training content and participants work nature.
- Assessment tests conducted at the end of the program to evaluate the achievement of training objectives.

Each participant receives the training material (both theoretical and practical) in printed form and saved on a CD or flash drive. Detailed reports, including attendance records, final results, and overall program evaluations, are also provided.

Training materials are prepared professionally by a team of experts and specialists in various fields. At the end of the program, participants are awarded a professional attendance certificate, signed and accredited by the Scandinavian Academy for Training and Development.

### **Program Timings:**

- 9:00 AM to 2:00 PM in Arab cities.
- 10:00 AM to 3:00 PM in European and Asian cities.

### **The program includes:**

- A daily buffet provided during the sessions to ensure participants comfort.