Advanced Crude Oil Tanker Cargo Operations Training Course

8 – 12 March 2027
Geneva (Switzerland)



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Why This Course

Efficient and safe cargo operations are at the heart of crude oil transportation. Managing these operations requires not only technical expertise but also a deep understanding of safety, environmental compliance, and risk management. In a high-stakes maritime environment, even small operational errors can lead to costly incidents and environmental damage.

The Advanced Crude Oil Tanker Cargo Operations program is an intensive 1-week course designed for maritime professionals, tanker officers, engineers, and operations managers seeking to master the complex aspects of crude oil cargo handling. The course provides in-depth training on tanker design, safety systems, environmental protection, and emergency procedures—ensuring participants are fully equipped to manage tanker operations with precision, safety, and confidence.

What You'll Learn and Practice

By joining this program, you will:

- Master advanced safety management protocols for crude oil tanker operations.
- Develop expertise in efficient and compliant cargo handling and transfer techniques.
- Understand tanker design, cargo systems, and control instrumentation.
- Apply MARPOL and other international environmental protection standards.
- Enhance decision-making skills for cargo risk assessment and crisis management.

The Program Flow

Day 1: Tanker Design and Cargo Systems

- Overview of advanced crude oil tanker design and structural components.
- Cargo tank configurations, segregation systems, and piping arrangements.
- Pump types, characteristics, and cargo transfer mechanisms.
- Instrumentation, automation, and control systems for cargo monitoring.
- Workshop: Interpreting tanker system diagrams and cargo flow paths.



Day 2: Safety Management and Risk Assessment

- Principles of tanker safety management and ISM Code compliance.
- Hazard identification, risk analysis, and mitigation techniques.
- Personal protective equipment PPE standards and best practices.
- Operation of emergency shutdown systems and safe work procedures.
- Exercise: Conducting a risk assessment for cargo transfer operations.

Day 3: Cargo Handling and Transfer Operations

- Pre-loading, pre-discharge, and line-testing procedures.
- Step-by-step execution of loading, discharging, and stripping operations.
- Cargo measurement, calculation, and documentation practices.
- Tank cleaning, gas freeing, and inert gas management.
- Simulation: Planning and executing a safe and efficient loading operation.

Day 4: Environmental Protection and Pollution Prevention

- MARPOL Annex I requirements and compliance obligations.
- Ballast water management systems and pollution control.
- Proper maintenance and documentation in the Oil Record Book.
- Spill prevention, containment, and cleanup procedures.
- Case Study: Managing environmental compliance during port operations.

Day 5: Emergency Response and Crisis Management

- Fire prevention, detection, and firefighting strategies.
- Emergency response to collisions, groundings, and hull damage.
- Oil spill containment, cleanup, and waste disposal procedures.
- Crisis communication, leadership, and coordination under pressure.
- Capstone Exercise: Developing and presenting a comprehensive emergency response plan.

Individual Impact

- Strengthen technical and operational expertise in crude oil cargo handling.
- Gain confidence in managing safety and environmental responsibilities.
- Build critical thinking and decision-making skills under operational stress.
- Develop comprehensive emergency and pollution prevention plans.

Organizational Impact

- Enhance operational safety and environmental compliance.
- Improve efficiency and accuracy in cargo loading and discharge operations.
- Strengthen crew readiness and crisis response capability.
- Reduce risk exposure and operational downtime through best-practice m[illegible]ent.



Training Methodology

This program combines theoretical instruction with applied practice to ensure operational excellence. Learning methods include:

- Interactive lectures and real-world case studies.
- Simulation-based cargo operation exercises.
- Group workshops on safety, risk, and environmental management.
- Scenario-based emergency response drills.
- Reference materials, templates, and operational checklists for field use.

Beyond the Course

Upon completion, participants will be equipped to manage crude oil tanker operations safely, efficiently, and in full compliance with international maritime standards. They will return ready to:

- Implement robust safety and risk management frameworks.
- Conduct and supervise complex cargo transfer operations.
- Design and enforce pollution prevention and emergency response protocols.
- Lead operational teams with confidence and technical authority.

