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Advanced Training for Crude Oil Tanker Cargo Operations

18 – 22 October 2027
Düsseldorf (Germany)



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Introduction

Crude oil tanker operations are among the most complex and critical processes in the oil and gas industry. The Advanced Training for Crude Oil Tanker Cargo Operations course is designed to equip participants with the essential knowledge and skills to effectively and safely manage crude oil tanker cargo operations. This comprehensive training program delves into the technical, legal, and environmental aspects of crude oil shipping and aims to ensure both the safety of the tanker crew and the protection of the environment. Participants will gain a detailed understanding of the entire voyage cycle, from the preparation of the cargo system to managing cargo oil tank operations and maintaining safety protocols throughout the shipping cycle.

This course also emphasizes oil tanker operation procedures and provides valuable insights into maintaining the commercial interests of the tanker owner while safeguarding the environment. By the end of the training, participants will be equipped with practical skills for handling the daily operations of an oil tanker ship.

Course Objectives

Upon completing this course, participants will be able to:

- Identify the properties and hazards associated with various types of crude oils, including flammability and volatility.
- Understand how to transport crude oil safely, ensuring all regulatory and operational requirements are met.
- Assess the evolution of the crude oil industry, including the threats and opportunities within crude oil tanker cargo operations.
- Master the techniques needed to protect the commercial interests of oil tanker owners, including cargo calculations and ship-to-shore coordination.
- Apply incident analysis techniques to understand casualty reports and improve safety in crude oil tanker operations.
- Gain an in-depth understanding of cargo oil tank operations, including the importance of inert gas systems and pollution controls.



Course Outlines

Day 1: Development, Design, and Hazards of a Crude Oil Tanker

- Overview of the crude oil industry and its impact on shipping.
- Properties and hazards of crude oil: Flammability, volatility, and associated risks.
- Design for safety of a crude oil tanker ship, including the structural features of oil tank ships.
- Hazards of fuel oil and sources of ignition, and how to prevent accidents.

Day 2: Best Practices to Protect Owners' Commercial Interests

- Understanding the role of static electricity in preventing dangerous situations, such as de-bottoming.
- Cargo calculations: How to ensure efficient use of cargo oil tank space and capacity.
- Ship / shore liaison: Coordinating operations between the tanker and shore-based facilities to ensure safety and compliance.
- Protecting commercial interests: How to minimize risks during crude oil tanker operations.
- Managing gas evolution and venting to ensure safe transport.
- Introduction to Marine Vapour Emission Control systems.

Day 3: Atmosphere Control and Environmental Protection

- Role of inert gas systems in maintaining safety during transport.
- Overview of cargo pumps and piping systems for efficient crude oil tanker cargo operations.
- Inert gas operations and emergency procedures for emergency management.
- Crude oil washing: Techniques for maintaining tank cleanliness while preventing contamination.
- Overview of pollution controls and prevention strategies in crude oil shipping.

Day 4: Safe Working Practices and Permits

- Understanding the procedures for dangerous space entry to ensure the safety of crew members.
- Medical aspects of tanker safety, including handling emergencies.
- Use of gas detecting instrumentation for monitoring toxic or explosive gases.
- Importance of cold and hot work permits in maintaining safety during operations.
- Exploring the safety features of double hull tankers and combination carriers.

Day 5: Safety Management and Incident Analysis

- Overview of the cargo cycle, from dry dock to dry dock, and how to manage it efficiently.
- Case studies in risk and safety management: Learn from past incidents to improve future operations.
- Fire fighting on crude oil tankers: Best practices for preventing and responding to fire and explosion hazards.
- Incident analysis: Understanding key lessons from fire and explosion cases and implementing recommendations for safer operations.



Why Attend This Course? Wins & Losses!

- Enhance operational efficiency: This course equips you with practical knowledge on the oil tanker operation procedures, cargo oil tank management, and oil tanker ship safety to help you optimize tanker operations and reduce downtime.
- Ensure safety and environmental compliance: Learn to manage the critical aspects of crude oil transport, including inert gas systems, pollution controls, and safety practices, ensuring both crew safety and environmental protection.
- Protect the commercial interests of tanker owners: Gain insights into managing cargo calculations, gas venting, and marine vapor emission controls, which will help you secure long-term commercial success.
- Stay ahead of industry challenges: The course provides you with the latest knowledge on the evolving crude oil tanker cargo operations industry, helping you navigate potential risks and capitalize on emerging opportunities.
- Real-world application: With hands-on training and case studies, participants will be able to apply their skills directly to crude oil tanker cargo operations, improving overall business outcomes.

Conclusion

The Advanced Training for Crude Oil Tanker Cargo Operations course is an invaluable opportunity for professionals looking to enhance their knowledge of crude oil tanker operations. From understanding the complexities of crude oil shipping to managing the technical, environmental, and legal aspects of cargo oil tank operations, this course will provide you with the expertise needed to excel in the industry. By attending, you will gain critical insights into managing oil tanker ship operations safely, protecting the environment, and ensuring the commercial success of the organization. This training is essential for anyone involved in oil tanker operation procedures or those looking to improve their proficiency in the field.

