



M0043: Managing Tanker Cargo Operations

Training Description:

This intensive training course is designed to provide an understanding of the types of bulk liquid vessels which are used and the reasons for the differences between them. It also looks at the cargo operations to be conducted and the critical elements of these operations. As Part of the operations the methodology of maintaining the cargo in optimum conditions are examined. Many cargoes are extremely specialized and therefore are very expensive. Loss of cargo to mismanagement is completely avoidable if it is properly managed.

By understanding the type of cargo, the hazards it presents and the management processes, it is possible to minimize the risk of cargo spoiling, pollution and incorrect vessel selection thus making for a more efficient and cost-effective overall operation. Major points:

- Vessel types and their construction
- Cargo care and measurement
- Ballasting operations and optimizing vessel discharge features
- Hazards associated with different cargoes and how to manage them
- Determining the most suitable vessel
- Interpreting and understanding the regulations associated with these types of operation

The course will highlight:

- The differences between Oil, Chemical and Liquefied Gas Tankers
- The properties of different cargoes and the associated hazards
- Health, safety and environmental controls when working on tankers
- What is involved in the safe operation and monitoring of cargo on board tankers
- How to perform and monitor safe oil tanker cargo operations in compliance with legislative requirements

Training Objectives:

By the end of the training, participants will be able to learn:

- ✓ The main requirements of cargo operations in compliance with legislative requirements
- ✓ To understand the principal physical and chemical properties of tanker cargoes
- ✓ Awareness of hazards relating to health and safety and prevent pollution of the environment
- ✓ Methods to apply occupational health and safety precautions
- ✓ Principles of how to respond to emergencies

Personal Impact:

- ✓ Better understanding of operational structures
- ✓ Appreciation of the importance of properly structured procedures
- ✓ Increases awareness of hazards presented by different operations
- ✓ Learning techniques to ensure vessel integrity is not compromised
- ✓ Practicing methodologies which will aid incident prevention
- ✓ Understanding how emergencies occur and how to manage them

Organisational Impact:

- ✓ Improves individual understanding of the impact of tanker operations
- ✓ Helps to build team structures in cargo management

- ✓ Assists in prevention of environmental issues and their control if they occur
- ✓ Demonstrates the criticality of cargo separation
- ✓ Provides knowledge of safe methods of cargo transportation
- ✓ Contributes to the competence of personnel in a structured competence scheme

Training Designed for:

This course is intended for anyone who deals with any aspect of tanker cargo operations. This may not be direct involvement but may require individuals particularly at a higher level who should understand the issues with tanker cargo operations. In particular; Senior Management with high level responsibility for tanker operations, Fleet Managers, Vessel Charterers (*Aids ability to select the correct vessel*), Technical Managers (*Aids understanding of maintenance issues*), Vessel Personnel wishing to progress in their careers and Refinery Personnel at the vessel / facility interface.

Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Regulations & Properties of the Cargoes
 - Regulations and Codes of Practice
 - Defining hydrocarbons
 - Hazard warning symbols, MSDS and COSHH
 - Characteristics of hydrocarbons
 - Electrostatic charges
 - Safety equipment
 - Work site control

DAY TWO:

- ❖ Vessel Construction and Pollution Prevention
 - Effects of pollution
 - Vessel Types
 - Oil Tanker Construction
 - Chemical Tanker Construction
 - Liquefied Gas Tanker Construction

DAY THREE:

- ❖ Oil Tanker Cargo Operations
 - Cargo system Components

- Loading and Discharging Cargo
- Cargo care and tank cleaning
- Loading and discharging
- Crude Oil Washing
- Purging, Gas freeing and Inerting
- Inert Gas system

DAY FOUR:

❖ Chemical Tanker Operations

- Cargo care and compatibility
- Monitoring techniques
- Tank cleaning
- Cargo hazards
- Loading and discharging
- Flammability and Corrosivity
- Toxicity
- Emergency procedures

DAY FIVE:

❖ Liquefied Gas Carrier Operations

- Defining LNG and LPG
- Properties and hazards
- Cryogenic safety
- Electrical safety
- Brittle fracture
- Loading and discharging
- Cargo care and compatibility
- Managing hazards

❖ Course Conclusion

❖ POST-ASSESSMENT and EVALUATION

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Fees:

TBA as per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

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