



# M0136: Task Assignment on Tankers Operational Requirements and Coordination

## Training Description:

The purpose of this training course is to enhance the capabilities of shipboard personnel who sail on specialized carriers such as tankers. It is not the intention of the course to compartmentalize the trainee's way of thinking in terms of tanker operation. The idea is to make him/her aware of the specialization of operations specific to an oil and chemical tanker and sensitize him/her towards the responsibilities that s/he will face on such a vessel.

This intensive training course is meant for officers and ratings assigned basic duties and responsibilities related to cargo or cargo equipment on board oil and chemical tankers. By successfully completing this course, the aforementioned shipboard personnel will fulfill the mandatory minimum requirements of Regulation V/1-1 of STCW 1978, as amended.

This training course provides training for officers and controllers and ratings who are assigned specific duties and responsibilities related to cargo and cargo equipment on oil and chemical tankers. It comprises a familiarisation training programme tailored to their duties and responsibilities, including basic training for oil and chemical tanker safety, fire safety measures, characteristics of tanker cargoes and their associated hazards, pollution prevention, emergency operations, as well as cargo equipment and operations and obligations under applicable law and regulations.

## Training Objectives:

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

- ✓ Be familiar with the equipment, instrumentation and controls used for cargo handling on an oil and chemical tanker
- ✓ Develop greater awareness of the importance of proper planning and the use of checklists involved in various cargo handling operations
- ✓ Have an enhanced awareness to carry out procedures and operations on board safely at all times
- ✓ Be able to identify operational problems and assist in solving them
- ✓ Follow safety practices and protect the marine environment
- ✓ Be able to assist and coordinate actions during emergencies
- ✓ Basic knowledge of tankers
- ✓ Physical and chemical properties of oil and chemicals
- ✓ Knowledge and understanding of tanker safety culture and safety management
- ✓ Hazards
- ✓ Safety
- ✓ Fire safety and firefighting operations
- ✓ Cargo operations
- ✓ Emergencies for oil and chemical tankers
- ✓ Pollution prevention for oil and chemical tankers

## Training Designed for:

This course is intended for officers and controllers and ratings who are assigned specific duties and responsibilities related to cargo and cargo equipment on oil and chemical tankers.

## 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:

### FIVE DAYS:

- ❖ Basic Knowledge oil tanker
  - Types of oil and chemical tanker
  - General arrangement and construction
- ❖ Basic Knowledge of cargo Operations
  - Piping systems and valves
  - Cargo pumps
  - Loading and unloading
  - Tanker cleaning
  - Purging, gas-ironing and inerting
- ❖ Physical properties of oil and chemicals
  - Pressure and temperature, including vapour pressure
  - Temperature relationship
  - Types of electrostatics charge generation
  - Chemical symbols
- ❖ Tanker safety culture and safety management
  - Precautions to prevent hazards
- ❖ Hazards associated with tanker operations
  - Health hazards
  - Environmental hazards
  - Reactivity hazards
  - Corrosion hazards
  - Explosion and flammability hazards
  - Source of ignition, including electrostatic hazards
  - Toxicity hazards
  - Vapor leaks and clouds.
- ❖ Hazards controls
  - Knelling
  - Water padding
  - Drying agents and monitoring techniques
  - Anti-static measures
  - Ventilation segregation
  - Importance of cargo compatibility
  - Cargo inhibition

- Atmospheric control
- Gas testing
- ❖ Information on a Material Safety Data Sheet (MSDS) Apply occupational health and safety precaution and measures:
  - Function and proper use of gas-measuring instruments and similar equipment
  - Proper use of safety equipment and protective devices, including Breathing apparatus and tank-evacuating equipment
  - Protective clothing and equipment
  - Resuscitators / Rescue and escape equipment
  - First aid with reference to material safety data sheet (MSDS)
- ❖ Safe working practices and procedures in accordance with legislation and industry guidelines and personal shipboard safety relevant to oil and chemical tankers, including:
  - Precautions to be taken when anteing enclosed spaces
  - Precautions to be taken before and during repair and amniomancy
  - Safety measures for hot and cold work
  - Electrical safely Ship-shore safety checklist
- ❖ Carry out fire-fighting operations:
  - Tanker fire response organization and action to be taken
  - Fire hazards associated with cargo handling and transportation of hazardous and noxious liquids in bulk
  - Fire-fighting agents used to extinguish oil and chemical fires
  - Fire-fighting foam system operations
  - Fixed fire-fighting foam system operations
  - Fixed dry chemical system operations
  - Spill containment in relation of fire-fighting operations
- ❖ Respond to emergencies:
  - Emergency procedures, Including emergency shutdown
- ❖ Precautions to prevent pollution of the environment from the release of oil.
  - Effects of Oil and chemical pollution on human and marine life
  - Shipboard procedures to prevent pollution
  - Measures of be taken in the event of spillage
  - Relevant information to the responsible persons
  - Implementing shipboard spill-containment procedures
- ❖ Case Studies on oil and NLS ship Emergencies
- ❖ 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 Certificate(s):

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

### 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 01<sup>st</sup> of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

### 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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