

# BASIC TRAINING FOR OIL & CHEMICAL TANKER CARGO OPERATIONS

## COURSE AIM

To provide training for those assigned specific duties and responsibilities related to cargo and cargo equipment of tankers.

## TARGET GROUP

This course is aimed at seafarers with assigned duties and responsibilities for cargo and cargo equipment on oil and chemical tankers in any capacity as part of the mandatory STCW requirements. This course is delivered in accordance with section A-V/1-1-1 of the STCW Code.

## COURSE CONTENT

- Contribute to safe cargo operation of oil and chemical tankers:
  - Basic Knowledge of tankers: Types of oil and chemical tankers / General arrangement and construction,
  - Basic Knowledge of cargo operations: Piping systems and valves / Cargo pumps / Loading and unloading / Tanker cleaning, purging, gas-freeing and inerting,
  - Basic knowledge of physical properties of oil and chemicals: Pressure and temperature, including vapour pressure/ Temperature relationship / Types of electrostatics charge generation / Chemical symbols,
  - Knowledge and understanding of tanker safety culture and safety management,
- Take precautions to prevent hazards:
  - Basic Knowledge of the hazards associated with tanker operations, including: Health hazards / Environmental hazards / Reactivity hazards / Corrosion hazards / Explosion and flammability hazards / Source of ignition, including electrostatic hazards / Toxicity hazards / Vapor leaks and clouds.
  - Basic Knowledge of the hazards controls: Inerting, water padding, drying agents and monitoring techniques / Anti-static measures / Ventilation / Segregation / Importance of cargo compatibility / Cargo inhibition / Atmospheric control / Gas testing.
  - Understanding of 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,
  - Basic knowledge of safe working practices and procedures in accordance with legislation and industry guidelines and personal ship board safety relevant to oil and chemical tankers, including: Precautions to be taken when entering enclosed spaces / Precautions to be taken before and during repair and maintenance / Safety measures for hot and cold work / Electrical safety / Ship-shore safety checklist,
  - Basic knowledge of first aid with reference to material safety data sheet (MSDS),
- 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,
  - Portable 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:
  - Basic knowledge of emergency procedures, including emergency shutdown,

- Take precautions to prevent pollution of the environment from the release of oil or chemicals:
  - Basic knowledge of the effects of oil and chemical pollution on human and marine life,
  - Basic knowledge of ship board procedures to prevent pollution,
  - Basic knowledge of measures to be taken in the event of spillage, including the need to: Report relevant information to the responsible persons / Assist in implementing shipboard spill-containment procedures

This course is designed in conformity with the IMO model course 1.01.

### COMPETENCY

Delegates will be required to pass a practical assessment of skills, and a written or verbal examination of theory.

### PRE REQUISITE

Certificate in shore based basic fire fighting and basic first aid.

### METHOD OF TRAINING

Theory conducted in a classroom including presentations and discussions based on lived experiences, followed by practical & simulation training and assessment and will include the visual teaching aids, writing materials and provision of catering.

### COURSE DURATION

Nine (9) days.

### RATIO OF THE TRAINING

70% Theory / 30 % Simulation

### VALIDITY OF CERTIFICATE

5 years

### DURATION OF REFRESHER TRAINING

2 days





