

ADVANCED TRAINING FOR OIL TANKER CARGO OPERATIONS

COURSE AIM

To enable delegates to take immediate responsibility for loading, discharging and care in transit or handling of cargo on oil tankers.

TARGET GROUP

This course is aimed at masters, chief engineers, officers and any other person with responsibility for loading, discharging, and care in transit or handling of cargo on oil tankers in any capacity as part of the mandatory STCW requirements.

This course is delivered in accordance with section A-V/1-1-2 of the STCW Code.

COURSE CONTENT

- Ability to safely perform and monitor all cargo operations:
 - Design and characteristics of an oil tanker,
 - Knowledge of oil tanker design, systems and equipment, including: General arrangement and construction / Pumping arrangement and equipment / Tank arrangement, pipeline system and tank venting arrangement / Gauging systems and alarms / Cargo heating systems / Tank cleaning, gas-freeing and inerting systems / Ballast systems / Cargo area venting and accommodation ventilation / Slop arrangement / Vapour recovery systems / Cargo-related electrical and electronic control system / Environmental protection equipment, including Oil Discharge Monitoring Equipment (ODME) / Tank coating / Tank temperature and pressure control systems / Fire-fighting systems
 - Knowledge of pump theory and characteristics, including types of cargo pump and their safe operation,
 - Proficiency in tanker safety culture and implementation of safety-management system,
 - Knowledge and understanding of monitoring and safety systems, including the emergency shutdown,
 - Loading, unloading, care and handling of cargo,
 - Ability to perform cargo measurements and calculations,
 - Knowledge of the effect of bulk liquid cargoes on trim, stability and structural integrity,
 - Knowledge and understanding of oil cargo-related operations, including: Loading and unloading plans / Ballasting and deballasting / Tank cleaning operations / Inerting / Gas-freeing / Ship-to-ship transfers / Load on top / Crude oil washing,
 - Development and application of cargo-related operation plans, procedures and checklists,
 - Ability to calibrate and use monitoring and gas-detection systems, instruments and equipment,
 - Ability to manage and supervise personnel with cargo-related responsibilities,
- Familiarity with physical and chemical properties of oil cargoes:
 - Knowledge and understanding of the physical and chemical properties of oil cargoes,
 - Understanding the information contained in a Material Safety Data Sheet (MSDS),
- Take precautions to prevent hazards:
 - Knowledge and understanding of the hazards and control measures associated with oil tanker cargo operations, including: Toxicity / Flammability and explosion / Health hazards / Inert gas composition / Electrostatic hazards,
 - Knowledge and understanding of dangers of non-compliance with relevant rules/regulations,
- Apply occupational health and safety precautions:
 - Knowledge and understanding of safe working practices, including risk assessment and personal shipboard safety relevant to oil tankers: Precautions to be taken when entering enclosed spaces, including correct use of different types of breathing apparatus / Precaution to be taken before and during repair and maintenance work / Precaution for hot and cold work / Precaution for electrical safety / Use of appropriate personal protective equipment (PPE)
- Respond to emergencies:
 - Knowledge and understanding of oil tanker emergency procedures, including: Ship emergency response plans / Cargo operations emergency shutdown / Actions to be taken in the event of failure of systems or services essential to cargo / Fire-fighting on oil tankers / Enclosed space rescue / Use of a Material Safety Data Sheet (MSDS),

- Action to be taken following collision, grounding or spillage
- Knowledge of medical first aid procedures on board oil tankers
- Take precautions to prevent pollution of the environment:
 - Understanding of procedures to prevent pollution of the atmosphere and the environment
- Monitor and control compliance with legislative requirements
 - Knowledge and understanding of relevant provisions of the International Convention for the Prevention of Pollution from Ships (MARPOL), as amended, and other relevant IMO instruments, industry guidelines and port regulations as commonly applied

This course is designed in conformity with the IMO model course 1.02.

COMPETENCY

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

PRE REQUISITE

At least three months of approved sea going service on tankers in order to acquire the adequate knowledge of safer operational practices OR and approved Tanker Familiarisation course covering at least the syllabus for section A-V/1 of the STCW Code

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

Seven (7) days.

RATIO OF THE TRAINING

70% Theory / 30 % Simulation

VALIDITY OF CERTIFICATE

5 years

DURATION OF REFRESHER TRAINING

2 days

