

# Transport of Dangerous Goods by Sea

Delivery Method: eLearning || Duration: 5 hours || Course Fee: 380 €

Category: Rules & Regulations

Available languages: English

## Certificate

On completion of the training program, the student will be awarded:

- A Certificate of **Transport of Dangerous Goods by Sea**, issued by Bureau Veritas Solutions Marine & Offshore.

The Certificate of **Transport of Dangerous Goods by Sea** is obtained after completing the course and passing the online tests.

## Presentation

This Training Course includes an introduction to the different classes of dangerous goods, their divisions and subdivisions, and the IMO instruments that govern the transport of dangerous goods by sea. It presents the main requirements for the transport of dangerous goods in packaged form and the transport of solid dangerous goods in bulk.

## Who the course is for

The course **Transport of Dangerous Goods by Sea** is aimed at anyone interested in understanding the regulatory framework that governs the transport of dangerous goods by sea. This may include: Ship Managers, Technical Superintendents, Ship Masters, Officers and Seafarers; Shipyards Technical Staff; Surveyors; P&I and/or Insurance Inspectors; Naval Architects; Marine Engineers; Etc..

## Objectives

On completion of the training, students will be able to:

- Understand the different classes, divisions and sub-divisions of dangerous goods, and the main requirements of the SOLAS for the carriage of dangerous goods in packaged form and in bulk.
- Understand the requirements for prevention of incidents, for protection of people on board and the firefighting equipment required to detect, contain and suppress any fire.
- Identify the applicable requirements depending on the cargo space where dangerous goods are transported and the class of the dangerous goods transported

## Program

### Module 1 – Introduction to Dangerous Goods

- What are dangerous goods?
- Regulatory context
  - Summary of applicable requirements
  - Points of attention
  - SOLAS Ch. II-2, Regulation 19
  - Objectives of Regulation 19
- Documentation
  - SOLAS requirements
  - Limited quantities and excepted quantities
  - Document of Compliance

### Module 2 – Dangerous Goods in Packaged Form

- Summary of SOLAS objectives
- Requirements for prevention of incidents
  - Introduction
  - Minimize the presence of flammable atmosphere
    - Avoid dangerous gas/air mixtures
    - Minimize the passage of dangerous vapours and/or liquids
  - Minimize the source of ignition
    - Use of suitable equipment
    - Separation from sources of heat
- Requirements for the protection of persons on board
  - Introduction
  - Skin protection
  - Respiratory protection
- Requirements for firefighting
  - Introduction
  - Fire control
  - Fire containment
  - Fire suppression
    - Portable fire extinguishers
    - Water supply on fire main
    - Fixed firefighting system
- Applicability of SOLAS requirements
  - Introduction
  - Requirements related to the cargo spaces where the dangerous goods are carried
    - Open spaces
    - Closed spaces
    - Semi-enclosed spaces
    - Examples

- Requirements related to the class of dangerous goods transported
  - Introduction
  - Examples
- Combined requirements
  - Examples

## Module 3 – Solid Dangerous Goods in Bulk

- Introduction
  - Application of requirements
  - Summary of SOLAS objectives
- Requirements for prevention of incidents
  - Principle
  - Minimize the presence of flammable atmosphere
    - Avoid dangerous gas/air mixtures
  - Minimize the source of ignition
    - Use of suitable equipment
    - Separation from sources of heat
- Requirements for the protection of persons on board
  - Introduction
  - Skin protection
  - Respiratory protection
- Requirements for firefighting
  - Fire suppression
    - Water supply on fire main
    - Fixed firefighting system
- Applicability of SOLAS requirements
  - Introduction
  - Classes of dangerous goods for transport in bulk
  - Examples