

CARRIAGE OF PACKAGED DANGEROUS, HAZARDOUS AND HARMFUL CARGOES ON SHIPS



TARGET GROUP

The course is intended for: Seafaring personnel responsible for the handling of packaged dangerous, hazardous and harmful cargoes aboard ships; and Shore-based personnel, including Competent Authority and similar personnel responsible for dealing with the transport of dangerous goods by a mode of transport (national or international) whose requirements are based on the United Nations Recommendations on the Transport of Dangerous Goods. The course includes, but is not limited to, classification, packaging, consignment procedures, loading and segregation. The course has been prepared in accordance with the guidance contained in section B-V/c of the STCW Code.



OBJECTIVES OF THE COURSE

A trainee successfully completing the course will be able to contribute to the preparation and execution of the safe carriage of dangerous goods and Marine Pollutants by sea, understand the regulations, the importance and the impact on safe handling and carriage of dangerous cargoes by sea.



COURSE CONTENTS

The Dangerous, Hazardous and Harmful Cargoes training course covers the following topics:

- Background and general introduction
- Conventions
- IMO and dangerous goods
- The IMDG Code
- Classification. Physics and Chemistry
- Classification. The UN System as Used by IMO
- Classification. The IMDG Code classes
- Packing and tank requirements
- Construction and testing of packagings, IBCs and portable tanks
- Consignment procedures
- Limited and excepted quantities
- Transport operations
- IMDG Code supplement
- Recommendations on the safe transport of dangerous cargoes and related activities in port areas
- Updating the IMDG Code
- Training requirements and security plans (upon request) (CFR 49/I/C/172/H/704 until 804/)
- Assessment and Discussion

APPROVAL



The course covers all subject areas recommended by IMO Model Course 1.10 "Dangerous, Hazardous and Harmful Cargoes". The course is certified by Latvian Maritime Administration.

COURSE LIMITATIONS



The maximum number of participants - 24 persons.

INCOME REQUIREMENTS:



To be assigned on Dangerous, Hazardous and Harmful Cargoes training course, participant should present:

- national passport
- seamen's book
- national license or educational diploma

DURATION OF THE TRAINING COURSE



The duration of the Dangerous, Hazardous and Harmful Cargoes training course is 3 working days.



THE COURSE PROGRAM

DAY 1

- Background and general introduction
 - The course
 - Training program introduction.
STCW requirements
- Conventions
 - International Convention for the Safety of Life at Sea, 1974 (SOLAS 74)
 - International Convention for the Prevention of Pollution from Ships 1973/78 (MARPOL 73/78)
 - Dangerous goods and harmful substances
- IMO and dangerous goods
 - Reasons for IMDG Code appearance.
Orange book
 - UN Committee of Experts and its main issues.
 - Classification, marking, labeling, documentation
- The IMDG Code
 - Application of the Code
 - Content and layout of IMDG Code
 - The Dangerous Goods List
- Classification. Physics and Chemistry
 - Basic terms, elements, materials, substances and symbols
 - Physical chemistry
 - Hazardous chemicals and chemical reactions
- Classification. The UN System as Used by IMO
 - United Nations classes
 - Packing groups
 - Proper shipping names and UN Numbers
- Classification. The IMDG Code classes
 - IMDG Code Classification system
 - UN Numbers and Proper Shipping Names
 - Marine pollutants and wastes

DAY 2

- Packing and tank requirements
 - Terminology
 - Distribution hazards for packages
 - Selection of suitable packagings
 - Tank systems
- Construction and testing of packagings, IBCs and portable tanks
 - Performance tests for packagings
- Consignment procedures
 - Marking and labeling of packages
 - Marking and placarding of cargo transport units
 - Documentation
- Limited and excepted quantities
 - Permitted consignments
 - Packaging requirements
- Transport operations
 - Stowage principles
 - Segregation principles
 - Actions to be taken in the event of incidents involving dangerous goods and fire precautions
 - Cargo transport units

DAY 3

- Transport operations
 - Temperature control
 - Competent Authorities
- IMDG Code supplement
 - Emergency response procedures (EmS Guide)
 - Medical First Aid Guide (MFAG)
 - Reporting Procedures
 - Recommendations on the Safe Use of Pesticides in Ships
 - Carriage of nuclear materials (INF Code)
- Recommendations on the safe transport of dangerous cargoes and related activities in port areas
- Updating the IMDG Code
- Training requirements and security plans (upon request) (CFR 49/II/C/172/H/704 until 804/)
- Assessment and Discussion

Note: during training course theoretical lessons are given using PowerPoint presentations, for practical exercises participants can be placed into groups of six or eight people.