

IMDG: Transport of Dangerous Goods by Sea

COURSE: IMDG – INTERNATIONAL MARITIME TRANSPORT OF DANGEROUS GOODS BY SEA

SCOPE AND APPLICABILITY:

Participants completing this course will be able to contribute to the preparation and execution of the safe transport of dangerous goods and marine pollutants by sea and understand the legal implications thereof. This course is aimed at on-board and onshore personnel responsible for handling dangerous and hazardous packaged cargo. This course has been designed in accordance with sections A-II/1, A-II/3 and B-Vc of the STCW Code (R12) for maritime crew and in accordance with IMO Model 1.10 on Dangerous Goods.

REGULATIONS & STANDARDS

- IMO Course Model 1.10 Dangerous, goods and Harmful Cargoes, 2014 Edition;
- International Maritime Dangerous Goods (IMDG) Code, 2012 Edition incorporating amendment 36-12;
- International Convention for the Safety of Life at Sea (SOLAS), 1974, as amended, regulation II-2/54 in relation to ships intended for the carriage of dangerous goods (R8);
- Protocol I of MARPOL 73/78, as amended A.648 (16) General principles for reporting systems and ship reporting requirements;
- International Maritime Solid Bulk Cargoes (IMSBC) Code as amended (R14);
- Title 49, Code of Federal Regulations (49 CFR), subpart H, governed by the United States Department of Transportation;
- Atlantic Canada Offshore Petroleum Industry Standard Practice for the Training and Qualification of Personnel 2013-0007 published by CAPP 4.24 Transport of Dangerous Goods (TDG);
- NORMAN 29 - Maritime Authority Standards for Transportation of dangerous goods;
- EmS Guidance – Revised Emergency Response Procedures for Ships Carrying Dangerous Goods;
- MFAG - Medical First Aid Guide for Use in Dangerous Goods Accidents.

COURSE CONTENT:

1. Introduction: The IMDG CODE:

- Purpose of the Course;
- IMO;
- IMDG;
- General Provisions and Definitions;
- Training Requirements;
- Security Provisions.

2. Classification requirements:

- Introduction;
- The structuring of the description of substances;
- The classes of dangerous goods, their risks and the principles of classification;
- Responsible for Classification;
- Classification and Identification;
- The Nature of Hazardous Substances and Items Transported (their Physical, Chemical and Toxicological Properties);
- The Procedure for Classifying Solutions and Mixture;
- Identification by Appropriate Name for Shipment and UN Number;
- List of Hazardous Products General - Use of the Dangerous Products List;
- Special Provisions;
- Limited Quantity;

- Excepted Quantity.

3. Consignment Procedures:

- General Provisions
- Packaging Marking and Labelling
- Placarding and marking of cargo transport units
- Special Provisions.

4. Packaging Requirements

- Provisions for Tanks and Packaging (General);
- Volume Types (IBC, Large Packages, Tanks and Bulk Containers);
- Guidelines for Packaging Cargo Transport Units (CTUs);
- Tanks Provisions;
- Bulk Container;
- Provisions for Packaging Construction and Testing;
- Provisions for Packaging;
- Provisions for IBCs;
- Provisions for Large Packages;
- Provisions for Portable Tanks and Multi-Element Gas Containers (MEGCs);
- Provisions for Bulk Container;
- UN Marking for Approved Packaging;

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- Limited Quantities and Exempted Quantities.
- 5. Segregation requirements:**
 - General Segregation Provisions;
 - Consignment Operations Related to CTUs;
 - Stowage and Segregation on Container Ships;
 - Stowage and Segregation on Ro-Ro Ships;
 - Stowage and Segregation on General Cargo Ships;
 - Shipborne Barges;
 - Exemptions, Approvals and Certificates.
- 6. Requirements Relating to The Marking, Labelling and Display of Posters:**
 - Primary and Subsidiary Risk Labels;
 - Marine Pollutants.
- 7. Documentation:**
 - Transport Document;
 - Certificate of Packaging in Container/Vehicle;
 - Approval of the Competent Authorities;
 - Waste Transport Documentation;
 - Special Documentation, When Appropriate
 - Compliance Document.
- 8. Stowage Requirements, When Applicable:**
 - General stowage provisions.
- 9. Requirements Relating to Load Securing (As Contained In IMO/ILO/UNECE Guidelines);**
- 10. International Convention for Safe Containers (CSC) requirements:**
 - CSC.
- 11. Relevant Parts of the IMDG Code, Local Requirements at Ports of Loading, Transit and Discharge:**
 - Port Regulations;
 - National Transport Rules.
- 12. Safe Handling Guidelines and Procedures:**
 - Use of Equipment;
 - Appropriate Tools;
 - Safe Workloads;
- 13. First Aid Measures;**
- 14. Emergency Reaction Procedures:**
 - Special Provisions in the Event of a Fire
 - Complementations;
 - SOLAS Chapter II-2/19.

COURSE DESIGN:

TOTAL: 24 hours

PREREQUISITE(S):

None.

MINIMUM/MAXIMUM NUMBER OF DELEGATES

This course requires a minimum of 1, and a maximum number of 8 trainees.

To offshore trainings, the course number of attendees will comply with the vessels/rig necessity.

MAIN SAFETY ISSUES:

- Start by listing item by item, which can be a risk when training is carried out;
- Take into account that we do not expose anyone to relevant risk at the time of practice;
- Say other important items that the training reinforces. Ask yourself the question: What will the person be able to pay more attention to, which is a common cause of accident related to the topic?
- Everything always in outline, with this black ball;
- All items must end with a semicolon and the last one with a period.



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REQUIRED EQUIPMENT:

- Identification of Dangerous Goods.
- Correct Labeling.
- Be aware of the characteristics of dangerous products in transport, transshipment and handling.
- Have previously planned emergency actions, based on the potential for damage caused by dangerous products.

CERTIFICATION:

Training certificate signed by responsible Engineer accredited by Brazilian CREA.

CERTIFICATE VALIDITY PERIOD:

5 years.