
Course Syllabus:

HMT-0240

Transport of Dangerous Goods by Vessel (HMT-0240)



ShipMate, Inc.

PO Box 787
Sisters, OR 97759 USA
Tel: +1 (310) 370-3600
Fax: +1 (310) 370-5700

Overview

This course is intended for those persons and facilities that receive, handle, or ship hazardous materials by vessel.

Goals

This course fulfills the U.S. Department of Transportation's hazardous materials transportation training requirements for: (1) general awareness and familiarization; (2) general safety; (3) hazardous materials security awareness; and (4) function-specific training for the following transportation and pre-transportation functions:

- Determining the hazard class of a dangerous goods;
- Selecting a limited quantity dangerous goods packaging;
- Filing a limited quantity dangerous goods packaging;
- Securing a closure on a filed or partially filled limited quantity dangerous goods package;
- Marking a package to indicate that it contains a dangerous goods in limited or excepted quantities;
- Preparing a shipping paper for limited or excepted quantities, if applicable;
- Providing and maintaining emergency response information, when required;
- Reviewing a shipping paper to verify compliance with the HMR
- Certifying that a hazardous material conforms to the requirements of the HMR and the IMDG Code.
- The carriage of dangerous goods by vessel or non-vessel operating carriers

Lesson Topics

Module 1 – Introduction

Introduction
Course Overview
Course Objectives
Navigation
WBT Library
Glossary
Learning Assessments
Additional Information

Materials

Computer (PC, laptop)
Internet Connection: High Speed

Requirements

You should print and maintain a copy of this course syllabus and overview on file at your facility. It is recommended that you provide a copy of this document in the event of a regulatory agency (e.g., OSHA) inspection.

Evaluation

Upon completion of the course of instruction, a comprehensive examination will be offered. In order to earn a Certificate of Completion, you must receive at least 80% on the exam. The exam is comprised of at least 10 questions, randomly selected from a database of questions and address each of the lesson topics covered in the course.

Lesson Topics – cont'd

Module 2 – Overview

- Overview & Regulatory Requirements
- Hazardous Materials Overview
- Consequences
- Responsibilities
- Training Requirements
- Regulatory Authorities
- 49 CFR subchapter C
- Relationship to Other Documents
- Shippers Responsibilities
- General Requirements
- Training
- Recordkeeping
- Learning Assessment

Module 3 – IMDG Code

- Part 1
- Part 2
- Part 3
- Part 4
- Part 5
- Part 6
- Part 7
- Appendices
- Index
- Supplement
- DGL Overview
- Learning Assessment

Module 4 – Classification

- Accident History
- Texas City, TX- 1947
- Bhopal, India- 1984
- ValuJet 592- 1996
- Physical & Chemical Properties
- Explosive
- Corrosive
- Flammable
- Combustible
- Reactive
- Radioactive
- Toxic
- Elevated Temperature
- Elevated Pressure
- International Classification
- Class 1- Explosives
- Class 2- Gases
- Class 3- Flammable Liquids
- Class 4- Solids
- Class 5- Oxidizers & Organic Peroxides
- Class 6- Toxic Materials
- Class 7- Radioactive Materials
- Class 8- Corrosive Materials
- Class 9- Miscellaneous Dangerous Goods
- Limited Quantity Determinations
- Surface
- Air

Module 5 – Dangerous Goods List

- Arrangement
- Columns A-N
- Numerical Cross-Reference
- Proper Shipping Name
- Prefixes
- Qualifying Words
- Synonyms
- Alternate Spellings
- Technical Names
- Basic Description
- I-S-H-P Sequence
- Special Provisions
- Packing Instructions
- Authorizations
- Specific Instructions
- State Variations
- U.S. Variations
- Ocean
- Learning Assessment

Module 6- Packing & Packaging

- Forces Encountered in Transportation
- Package Selection
- Package Condition
- Liquids
- Small Packaging's
- Authorized Packaging's
- Combination Packaging's
- UN POP Marking
- Drop & Stacking
- Leakproofness
- Hydraulic
- DOT Marking
- Cylinders
- Non-Specification Packaging
- (‘Strong’ Outer Packaging)
- Manufacturers Symbol (Box Maker's Certificate – BMC)
- Burst Strength
- Edge Crush Test
- Packing
- Damaged Packaging
- Packaging Evaluation
- Repackaging
- Learning Assessment

Module 7- Hazard Communication

- Marking
- Proper Shipping Name(s)
- Technical & Chemical Name(s)
- Identification Number
- UN or DOT Specification
- Packaging Marking
- Labeling & Marking
- Hazard Warning

- Labeling Requirements
- Cargo Handling
- Orientation Arrows
- Special Marks
- Excepted Quantities Mark
- Overpack Mark
- Package Marking & Labeling
- T-U-L-I-P
- Practical (Interactive) Exercise
- Overpacks
- Unit Loads
- P-I-L-O-T
- Unit Loads
- Cages
- Placarding
- Placarding Requirements
- Placarding Exceptions
- Limited Quantities
- New Limited Quantity Marking
- Consumer Commodity
- Excepted Quantities
- Placarding
- Marine Pollutant Marking
- Non-Reusable Packagings
- Learning Assessment

Module 8- Documentation

- Basic Description
- Alternative Description Formats
- Required Information
- Additional Descriptive Information
- Emergency Response Information
- Emergency Response Telephone Number
- Emergency Response Information
- ERT Service Providers
- Emergency Schedules (EmS)
- Medical First Aid Guides (MFAG)
- Reporting
- Shipping Certification
- Container Packing Certificate
- Dangerous Cargo Manifests
- Other Required Documentation
- Carrier Specific Information
- Recordkeeping Requirements
- Learning Assessment

Module 9- Transport Operations

- Storage & Loading
- Packing Cargo Transport Units
- Stowage
- Stowage Categories
- Special Stowage Requirements
- Living Quarters
- Mail
- Reactive Materials
- Marine Pollutants
- Foodstuffs
- Dry Ice
- Excepted Quantities
- Stowage

Module 10- HM Security

- HM Security Requirements
- HM-232
- Applicability
- HM Security Plan Requirements
- High Consequence Shipments
- Security Plan Elements
- Personnel Security
- Site Security
- En Route Security
- Training
- Module Assessment

Final Exam Preparation

- Certification Exam Code