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Subj: **Multimodal Transport of Limited Quantities (HMT-0501)**

This web-based training course was developed by ShipMate, Inc., in cooperation with ShipMate™University.com.

This course is intended for those persons and facilities that receive handle or offer into transport, all or in part by surface, air or vessel, hazardous materials (or dangerous goods) in limited or excepted quantities, or as consumer commodities. 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;
- filling a limited quantity dangerous goods packaging;
- securing a closure on a filled or partially filled limited quantity dangerous goods package;
- marking a package to indicate that it contains a dangerous goods in limited or excepted quantities;
- labeling 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, IMDG Code and ICAO TI; and
- certifying that limited and excepted quantities of dangerous goods are in proper condition for transportation in conformance with the requirements of the HMR, IMDG Code, and ICAO TI, if applicable.

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., DOT) inspection.

If this course does not address all of the hazardous materials transportation or pre-transportation functions that If you have any questions regarding this or other hazardous materials training programs, or need any assistance, please call the course authors, ShipMate, Inc. at +1 (310) 370-3600.

Respectfully,

Steven Charles Hunt
ShipMate, Inc.

Web-Based Training (WBT)
Multimodal Transport of Limited Quantities (HMT-0501)

Module 1 Introduction

Lesson 1	Welcome & Course Objectives
Lesson 2	Responsibilities
Lesson 3	Navigation
Lesson 4	Program Features
Lesson 5	Assessments & Certification
Lesson 6	Additional Information

Module 2 Overview

Lesson 1	Overview & Regulatory Requirements
Lesson 2	Hazardous Materials Overview
Lesson 3	Consequences
Lesson 4	Responsibilities
Lesson 5	Training Requirements
Lesson 6	Regulatory Authorities
Lesson 7	49 CFR subchapter C
Lesson 8	IMDG Code
Lesson 9	A.I.R. Shipper™ by Labelmaster
	Learning Assessment

Module 3 Classification & LQ Determination

Lesson 1	Accident History Texas City, TX – 1947 Bhopal, India – 1984 ValuJet 592 – 1996
Lesson 2	Physical & Chemical Properties Explosive Corrosive Flammable Combustible Reactive Radioactive Toxic Elevated Temperature Elevated Pressure
Lesson 3	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
- Lesson 4 Limited Quantity Determinations
 - Surface
 - Air
 - Ocean
- Learning Assessment

Module 4 Packing & Packaging

- Lesson 1 Forces Encountered in Transportation
- Lesson 2 Approved Packagings
 - Quality & Handling
 - Absorbent
- Lesson 3 UN POP Marking
 - Manufacturer Marks
 - Performance Level
- Lesson 4 UN POP Testing
 - Drop & Stacking
 - Leakproofness
 - Hydraulic
- Lesson 5 Limited Quantity Packaging
- Lesson 6 Non-Specification Packaging (‘Strong’ Outer Packaging)
- Lesson 7 Manufacturers Symbol (Box Maker’s Certificate – BMC)
 - Burst Strength
 - Edge Crush Test
- Lesson 8 Packing
- Lesson 9 Damaged Packaging
 - Packaging Evaluation
 - Repackaging
- Learning Assessment

Module 5 Hazard Communication

- Lesson 1 Marking
 - Proper Shipping Name(s)
 - Technical & Chemical Name(s)
 - Identification Number
 - UN or DOT Specification

Lesson 2	Packaging Marking Labeling & Marking Hazard Warning Primary Risk Subsidiary Risk(s) Labeling Requirements Cargo Handling Orientation Arrows Special Marks Excepted Quantities Mark Overpack Mark
Lesson 3	Package Marking & Labeling TULIP
Lesson 4	Overpacks, Unit Loads & Cages Overpack PILOT Unit Loads Cages
Lesson 5	Limited Quantities New Limited Quantity Marking Sample Limited Quantities
Lesson 6	Consumer Commodities Important Transition Dates Maximum Gross Mass CTU Marking Requirements
Lesson 7	Excepted Quantities Excepted Quantity Determination Surface Air Ocean Sample Excepted Quantities
	Learning Assessment

Module 6 Documentation

Lesson 1	Basic Description Alternative Description Formats
Lesson 2	Required Information
Lesson 3	Additional Descriptive Information
Lesson 4	Emergency Response Information Emergency Response Telephone Number Emergency Response Information ERT Service Providers
Lesson 5	Reporting
Lesson 6	Shipping Certification

Other Required Documentation
Lesson 7 Carrier Specific Information
Lesson 8 Recordkeeping Requirements
Learning Assessment

Module 7 Emergency Response

Lesson 1 Initial Response Actions
Lesson 2 Spill Response Procedures
Spill Treatment
Lesson 3 Spill Response Equipment
Lesson 4 Reports & Notifications
Lesson 5 Emergency Response Plans
Learning Assessment

Module 8 Security

Lesson 1 Security Requirements
Lesson 2 Security Plan Requirements
Personnel Security
Site Security
En Route Security
Lesson 3 High Consequence Shipments
Lesson 4 Security Training

Course Summary
Certification Exam Code
Certification Exam