



ShipMate, Inc.
780 Buckaroo Trail, Suite D
Sisters, OR 97759-0787
Tel: +1 (310) 370-3600
Fax: +1 (310) 370-5700
E-mail: shipmate@shipmate.com

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Subj: Transport of Automotive Hazardous Materials for Drivers (HMT-0434)

This web-based training course was developed by ShipMate, Inc., in cooperation with the Coordinating Committee For Automotive Repair (CCAR) and The North American Automotive Hazmat Action Committee (NAAHAC).

This course is intended for those persons and facilities that transport automotive hazardous materials by surface transportation. 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:

- reviewing a hazardous materials packaging;
- reviewing the marking on a package of hazardous material;
- reviewing the labeling on a package of hazardous material;
- reviewing a shipping paper to verify compliance with the HMR;
- loading, blocking, and bracing a hazardous materials package in a transport vehicle;
- providing or offering, or applying placards to a vehicle used to transport hazardous material; and
- the carriage of automotive hazardous materials by private or contract carriers in quantities for which a placard is not required.

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 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)**Transport of Automotive Hazardous Materials for Drivers (HMT-0434)**

Module 1	Introduction
Lesson 1	Hazardous Materials Overview
Lesson 2	Consequences
Lesson 3	Responsibilities
Lesson 4	Training Requirements
Lesson 5	Regulatory Requirements Overview
Module 2	Classification
Lesson 1	Accident History
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
Module 3	Automotive Hazardous Materials
Lesson 1	Electrical System
	Battery
	Speakers
	Cable Cutters (Battery Disconnects)
Lesson 2	Fuel System
	Fuel Pumps, Injectors & Rails
	Fuel Lines
	Fuel Pressure Regulators
	Charcoal Canisters

	Gas Tanks, Filler Necks & Gas Caps
Lesson 3	Power Train
	Engines
Lesson 4	Passenger Safety
	Air Bag Modules
	Driver-Side Airbags
	Passenger-Side Airbags
	Side Impact (Thorax) Air Bags
	Knee Bags
	Air Curtains
	Seat-Belt Pretensioners
Lesson 5	Steering & Suspension
	Accumulators
	Brake Boosters
Lesson 6	Paint & Body
	Lift Gate Supports
	Windshield Washer Fluid (concentrate)
	Paint & Paint Related Materials
	Adhesives & Coating Solutions
Lesson 7	Accessories
	Flares
	Fire Extinguishers
	Tire Inflators
	Cleaning Compounds
	After-Market Auto-Care Products

Module 4 Hazard Communication

Lesson 1	Package Marking & Labeling
	TULIP
Lesson 2	Overpacks, Unit Loads, Cages & Markings
	Unit Loads
	Parts Cages
	Overpacks
	PILOT
Lesson 3	Placarding
	Placarding Requirements
	Placarding Exceptions
Lesson 4	Limited Quantities
Lesson 5	Consumer Commodity Transition
Lesson 6	Excepted Quantities

Module 5 Lithium Batteries and Hybrid & Electric Vehicles

Lesson 1	UN38.3 Lithium Battery Testing Requirements
Lesson 2	Fully Regulated Batteries Overview

	Energy Ratings (in Wh)
Lesson 3	Lithium Metal Cells – Fully Regulated
Lesson 4	Lithium Metal Batteries – Fully Regulated
Lesson 5	Lithium Ion Cells – Fully Regulated
Lesson 6	Lithium Ion Batteries – Fully Regulated
Lesson 7	Lithium Cell & Battery Packaging Cargo Aircraft Only Labels

Module 6 Packing & Packaging

Lesson 1	Forces Encountered in Transportation
Lesson 2	UN POP Marking Testing Criteria
Lesson 3	Non-Specification Packaging ('Strong' Outer Packaging)
Lesson 4	International Symbols
Lesson 5	Packing
Lesson 6	Damaged Packaging Packaging Evaluation

Module 7 Documentation

Lesson 1	Shipping Paper Overview Required Information
Lesson 2	Basic Description
Lesson 3	Additional Descriptive Information Special Permits, Approvals & EX Numbers Limited Quantity Placards Required for Transport Quantity, Types & Kinds of Packaging Technical or Chemical Names, N.O.S. Entries Flashpoint
Lesson 4	Emergency Response Information Emergency Response Telephone Number Emergency Response Information ERT Service Providers
Lesson 5	Sample Shipping Papers
Lesson 6	Carrier-Specific Requirements
Lesson 7	Recordkeeping Requirements Additional Requirements Will-Call Orders

Module 8 Storage, Handling & Transportation

Lesson 1	Safety Data Sheet Overview
Lesson 2	SDS Requirements Availability

- Lesson 3 Safe Handling Practices
General Storage Provisions
Storage
- Lesson 4 Load Securement
- Lesson 5 Materials of Trade
Packaging
Hazard Communication
Aggregate Gross Weight Limits
Exceptions

Module 9 Emergency Response

- Lesson 1 Initial Response Actions
Spill Response Procedures
- Lesson 2 Reporting & Notifications

Module 10 HM Security

- Lesson 1 A History Lesson
- Lesson 2 HM Security Awareness
- Lesson 3 HM Security Plan
Requirements
Personnel Security
Site Security
En Route Security
Reporting