



SHIPPING LITHIUM BATTERIES COURSE AGENDA

Topics are presented in the form of lecture, guided discussion, Q & A, and practical exercises.

Hazmat General and Security

Awareness

- Why hazardous materials are regulated
- What activities are subject to DOT rules
- How to recognize hazardous materials
- The properties that cause a material to be "hazardous"
- The overall system of hazardous materials regulation
- Dangers posed by hazardous materials
- Security risks of hazardous materials transportation
- Increasing security at your facility and on the road
- How to recognize and respond to possible security threats

Shipping Lithium Batteries

- The difference between lithium-metal and lithium-ion batteries
- Determining when batteries are eligible for excepted shipment relief
- Requirements and reliefs for excepted batteries
- Lithium batteries packed either "with" or "in" equipment
- How to classify, name, and package lithium batteries
- Information that must be included on shipping papers
- Battery marking, labeling, and placarding
- DOT, IATA, and IMO variations
- Unique requirements for air shipments (e.g., 30% state-of-charge)
- Additional requirements for damaged, defective, or recalled lithium batteries

Safety*

- Chemistry differences between lithium-ion and lithium-metal batteries
- Risks and hazards associated with lithium batteries
- Significant incidents
- Storage guidelines
- Safe handling procedures
- Firefighting measures
- Cleanup procedures
- First aid
- Post-emergency responsibilities (i.e., disposal issues)

Certification Quiz

**Safety topics are covered in the optional online training included with enrollment in the Shipping Lithium Batteries online course (HMT 254) or live webinar (HMT C54A)*