

Tier 1 Shipping, Handling & Closure Training SafeX

Tier 1 Shipping, Handling & Closure Training ensures compliance and safety in shipping low energy batteries, covering documentation, packaging requirements, safety precautions, and regulatory restrictions.

- 1) Are shipping records required for shipping low energy batteries using SafeCASE/SafeSLEEVE?
 - a. No, shipping records are not required.
- 2) What type of shipping document is required for shipping low energy batteries?
 - a. A Bill of Lading or Packing List is required.
- 3) If the battery is less than 30 kg, what type of shipping box is accepted?
 - a. If the battery is less than 30 kg, any fitted cardboard box is accepted.
- 4) What energy sticker is required on the outside of the box for a Tier 1 shipment?
 - a. The low energy sticker (red outline) is required on the outside of the box.
- 5) With Tier 1 training, which Department of Transportation (DoT) special permits are used for shipping via UPS?
 - a. The permits that can be shipped with Tier 1 training via UPS are SP 21693 and SP 21704.
- 6) How should you identify a DDR battery?
 - a. A DDR battery is identified if it appears cracked, swollen, leaking, hot, or has any other visible problems.
- 7) How do you calculate watt-hours if it is not provided on the battery label?
 - a. Watt-hours can be calculated using the formula: Volts x Amp-Hours = Watt-Hours
- 8) What precautions should be taken when packaging batteries inside the SafeCASE/SafeSLEEVE?
 - a. Batteries should be wrapped with packing material (e.g., bubble wrap), placed inside the SafeCASE/SafeSLEEVE with packing material around them to secure and fill to the top of the case. Ensure all Thermal Runaway Shield® (TRS) pouches are facing inwards towards the battery.
- 9) What is the role of the Thermal Runaway Shield® (TRS) in a SafeCASE/SafeSLEEVE during a lithium-ion battery fire?
 - a. TRS pouches contain a liquid that will rupture and release onto the battery cells to stop the heat propagation in the event of a lithium-ion battery fire.
- 10) If a TRS pouch appears to be leaking or degraded before shipment, what should you do?
 - a. If a TRS pouch is leaking or degraded, do not ship the SafeCASE/SafeSLEEVE. Contact your shipping partner or KULR to get new pouches or an entire new SafeCASE/SafeSLEEVE.
- 11) How should DDR batteries showing signs of active disassembly or thermal runaway be handled?
 - a. DDR batteries showing signs of active disassembly or thermal runaway should not be shipped by any method. They should be stored safely until their energy content has dissipated.
- 12) Is it permissible to transport DDR batteries via air transport?
 - a. No, it is only permitted to transport DDR batteries via ground transport.