



Li-Ion High Voltage Battery Awareness Training

Course information sheet

Course duration 4 hours | Online

Course overview

This four-hour online course introduces the electrical, chemical, and fire hazards associated with lithium-ion battery cells, modules, and enclosed high-voltage systems. Participants examine battery construction, recognize changing electrical exposure during assembly, and discuss when work requires qualified battery personnel. Sodium-ion and traditional battery chemistries may be included in customer-specific examples as needed for the equipment and workforce.

Who should attend

Personnel who handle battery cells or assemble lower-voltage modules, including manufacturing and testing line workers, warehouse personnel, safety representatives, supervisors, managers, planners, and engineers.

Learning outcomes

- Recognize electrical, chemical, and fire hazards associated with lithium-ion cells, modules, and high-voltage battery systems.
- Describe basic high-voltage battery system construction and how exposure can change during assembly.
- Discuss safe handling considerations for cells and lower-voltage modules within assigned work and employer procedures.
- Recognize electrical safety boundaries and protective equipment considerations at a discussion level.
- Identify when a task must be referred to qualified battery workers.
- Compare relevant sodium-ion or traditional battery chemistry considerations when included for a customer's systems.

Topics covered

Lithium-ion battery construction; cell, module, and enclosed system hazards; electrical exposure during assembly; chemical and fire hazards; safe handling; electrical safety boundaries; protective equipment awareness; task escalation; customer-specific chemistry comparisons.

Format and scope

Online instructor-led presentation and discussion. This awareness course addresses hazard recognition and role boundaries; it includes no hands-on assembly or electrical PPE practice. References and examples are selected for the customer's equipment and applicable requirements.

The course does not prepare participants to wear electrical PPE or establish qualification as a battery worker. Employers determine task-specific training, procedures, and authorization.

Course inquiries 509-396-3008 | ElecTrain.com