



Energized Electric Vehicle and High Voltage Battery Technician Certification

Level 3 | Course information sheet

Course duration 2 days | Level 2 prerequisite | Written and practical assessment

Course overview

This two-day course builds on Level 2 training for work involving energized electric vehicle systems and high-voltage batteries. Participants assess electrical hazards, plan energized tasks, apply risk controls and equipment-specific procedures, and respond to electrical incidents. Level 2 completion is required before attending.

Who should attend

Experienced automotive manufacturing and assembly personnel, service technicians, supervisors, engineers, and safety representatives assigned to advanced electric vehicle or high-voltage battery tasks.

Learning outcomes

- Describe battery hardware and software safety features, components, and functional design at cell, module, and battery levels.
- Assess energized electrical tasks and select risk controls, protective equipment, tools, and safe work practices.
- Describe safe handling, storage, and shipment considerations for high-voltage batteries.
- Apply relevant procedures for energized parts, including contact release and response to electrical accidents.
- Evaluate energized task scenarios and demonstrate practical performance objectives.

Topics covered

Energy storage systems; high-voltage battery construction and components; hazard assessment and risk management; energized work practices; protective equipment; safe handling, storage, and shipment; contact release; electrical accident response.

Completion and scope

Successful completion of the written theory examination and practical performance objectives earns ElecTrain Level 3 certification. Completion of Level 2 is a prerequisite. Employers determine authorization for specific energized tasks and vehicle platforms after training.

Request this course

Contact ElecTrain at info@electrain.com or 509-396-3008 to discuss availability, vehicle platforms, and group training.