



Electric Vehicle High Voltage Technician Certification

Level 2 | Course information sheet

Course duration 3 days | Includes Level 1 training | Written and practical assessment

Course overview

This three-day instructor-led course combines Level 1 high-voltage awareness with practical training for technicians who isolate, verify, and recommission electric and hybrid vehicles. Participants assess hazards, prepare the work, select appropriate tools and protective equipment, establish an electrically safe work condition, and complete controlled recommissioning within taught procedures. Separate Level 1 enrollment is not required.

Who should attend

Automotive manufacturing and assembly personnel, service technicians, engineers, shop supervisors, and safety representatives whose assigned work involves high-voltage vehicle systems.

Learning outcomes

- Recognize high-voltage vehicle components and electrical, stored-energy, lithium-ion battery, chemical, and fire hazards.
- Assess a task, follow manufacturer and employer instructions, and select appropriate tools and protective equipment.
- Isolate a high-voltage vehicle system and verify absence of voltage with an appropriately rated meter, including a live-dead-live check.
- Establish an electrically safe work condition and complete controlled recommissioning within taught procedures.
- Explain the limits of Level 2 training and when work must be referred or separately authorized by the employer.

Topics covered

Level 1 electrical and vehicle awareness; DC and AC fundamentals; high-voltage components, battery systems and HVIL; shock and arc hazards; risk assessment; PPE and test equipment; isolation; absence-of-voltage verification; measurements; recommissioning.

Completion and scope

Successful completion of the written theory examination and practical performance assessment earns ElecTrain Level 2 certification and Level 1 training credit. This course does not qualify participants to work on live voltages. The employer determines authorization for specific tasks.

Request this course

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