

# Electrical & Electronics Training

High value skills training for industry

The National Transportation Center's **Essential Electrical and Electronics Skills training boot camps** equip participants with valuable skills in the shortest possible time through an intensive, competency-based, industry-vetted training experience.

## How it works

This training is a combination of online training and in-person, hands-on experience to develop and validate your skills. Participants complete skills training of ~88 hours over four weeks on a schedule that enables them to keep their day job.

- **Component 1: Online Training (~40 hours)**

Our state-of-the-art, engaging online training includes interactive learning, skill drills, simulators, and plenty of assessments so that participants can learn at their own pace and are ready to excel in the hands-on training and skills validation.

- **Component 2: Practicum live training and skills validation boot camps (~48 hours)**

Participants acquire and validate new high-value skills by actually completing tasks in our electrical training lab. Meetings are conveniently distributed over the course of four weeks.

- **Component 3: Equipment Perks**

All participants receive a tool set upon successful completion of the course, ensuring that they have the right tools and the right skills to complete their new tasks and enhance employability.



## Sample Schedule

The schedule depends on the specific program, but you can typically expect to meet in person three times per week for two-three hours per session over the course of four weeks. For example, you might meet Monday and Wednesday evening for two hours and Saturday morning for three hours.

## COMPETENCIES & KNOWLEDGE

- Describe the basic laws of electricity & circuits
- Identify electrical symbols and components
- Calculate resistance, current, and voltage problems using Ohm's Laws
- Perform voltage, current, and resistance measurements using the proper measurement devices
- Perform voltage drop testing on multiplex and non-multiplex circuits
- Perform basic battery testing and diagnosis
- Electricity theory basics
- Electrical circuit basics
- Electrical Schematic Reading
- Ohm's Law
- Circuit diagnostic basics
- Battery operation and testing

### Contact:

[admissions@nationaltransportationcenter.com](mailto:admissions@nationaltransportationcenter.com)



## Built by Experts

David Jones is an industry expert in everything you care about: electrical and electronics, technical training, and business. He brings more than ten years of progressive technician and training experience to his curriculum development, is a published author in *Electricity and Electronics*, and has helped hundreds of technicians grow their skills for industry.



## Essential Electrical and Electronics Skills Curriculum

This training program provides participants with an overview of vehicle electrical systems, along with training and validation for high-value skills used in the shop. Participants will be introduced to the safety and operation of equipment and tools used in the electrical diagnosis and repair industry. Participants will study the fundamentals of electricity and electronics. By the end, they demonstrate competencies while practicing safe shop behaviors for working with electrical systems.

### OUTCOMES

- Certificate of Completion
- Competency Transcript
- Fluke Multimeter Certification
- Preparation for ASE Entry-level Certification (not included)
- Access to career services support

### COSTS

We want to help all individuals access our training and develop a great career.

See current costs and funding opportunities at [nationaltransportationcenter.com/funding](https://nationaltransportationcenter.com/funding)



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