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Electric Vehicle Charging System Installation

Description

As automobile manufacturers begin to market and sell electric vehicles (EV) in North American, a demand will be created for qualified individuals to install the required charging stations supporting these vehicles. While these installations may look much like other electrical equipment installations, details that are unique to the technology make them anything but routine.

This 2 1/2 hour, self-paced course presents the process of installing an Electric Vehicle Charging System (EVCS) according to code requirement set forth in the National Electrical Code (NEC) with consideration for additional local jurisdictional requirements.

The course covers the installation processes including adapting an existing design to the physical location where the charging system will be installed. A description of charging systems from Level 1 through Level 3 and the special requirements for each, a review of NEC Article 625 and the requirements for installing each of the three levels of charging systems. The course also includes the process for system commissioning and project closeout.

To receive the EVCS installer certificate at the end of the course, you must pass a comprehensive online assessment.

Topics Covered

- An overview of EV trends
- EVCS components and simple designs
- EV equipment charging schemes
- NEC Article 625: Electric Vehicle Charging System (EVCS)
- Installation requirements
- System commissioning
- Project closeout

Objectives

- Describe the current electric vehicle (EV) landscape and trends
- Describe Electric Vehicle Service Equipment (EVSE) charging schemes
- Summarize requirements for National Electrical Code (NEC) Article 625, Electric Vehicle Charging System (EVCS) and references to other articles of the NEC
- Adapt a complete EVCS design to the installation environment
- Identify components of a Level 2 EVCS
- Describe a typical Balance of System (BOS)
- List permitting requirements for a Level 2 EVCS
- Describe installation requirements for a Level 2 EVSE
- Perform system commissioning
- Perform project closeout

Target Audience

- Qualified electricians with knowledge and experience performing electrical work according to the National Electrical Code (NEC) as well as other trade practices

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Media	Time Requirement	Cost
Web-Based	2 1/2 hours	\$250.00

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**IBEW EXHIBIT 1.0
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