

**Course Description:*****Electric Vehicle Infrastructure Training*****Participate in an overview of important factors to be considered in electric vehicle charging station design and installation**

From codes and standards to the different types and capabilities of the charging stations themselves and their locations, this course is targeted toward those involved in bringing electric vehicle charging to their community.

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**Why participate in Electric Vehicle Infrastructure Training?**

The introduction of electric drive vehicles into the automobile market presents a transformative opportunity for the transportation community. Electric drive vehicles offer lower fuel use and a greater energy efficiency, while simultaneously relying on a domestically produced energy source. As electric drive vehicles hold considerable promise, the installation of electric vehicle infrastructure is an essential component for the sustainability of the electric vehicle market. The National Alternative Fuels Training Consortium (NAFTC) at West Virginia University (WVU) has developed a thoroughly researched, instructionally sound, easily applied training program for electric vehicle infrastructure training. Participants gain a thorough knowledge of the concerns applicable to the processes involved in EV charging station installation, including the concerns of a proper and safe electricity supply, placement of the electric vehicle supply equipment (EVSE), codes and standards, and other concerns that are important to the project as a whole. This course does not teach electrical theory or electrician skills, but rather give the attendee the capability to make informed decisions and be aware of resources that will assist in the planning and implementation process of EVSE installation.

**Course Objectives**

Taught by certified NAFTC instructors, this two-day course will enable you to:

- Understand the need for electric vehicles (EVs)
- Develop a working knowledge of the types of EVs available for purchase today, and their different configurations
- Describe the fundamentals of electricity and how it is produced
- Explain the electrical distribution system from power generation plant to the consumer
- Become familiar with the different types of electric vehicle supply equipment (EVSE) and their individual advantages and disadvantages
- Explain the different personnel involved in the EV infrastructure installation process
- Be able to understand the concepts of electrical safety and the importance of proper procedures and equipment
- Understand the codes and standards that govern EVSE
- Be able to evaluate and understand the complexities of proper design and installation of an EVSE charging installation solution

Hands-on activities will provide participants with the opportunity to examine various EV charging units as well as examine a variety of electric vehicles.

This course is available to NAFTC member schools as a train-the-trainer upon advance request.

**Course Materials Provided to the Participant:**

- Participant Manual - including review questions and learning activities\*
- Program certificate

**Course Materials Provided in Train-the-Trainer session:**

- Instructor Manual - including course agenda and planning notes
- Participant Manual - including review questions and learning activities
- Program certificate
- Training aids (PowerPoint presentation, Flash animations, tests, etc.)
- List of suggested hands-on training aids for shop tasks

Please contact [info@ev-institute.com](mailto:info@ev-institute.com) for additional details and class pricing.

*\*Each module of the Participant's Manual contains text, illustrations, explanatory figures and tables, module review questions, and a list of key terms and abbreviations.*