

## Electrical Vehicle Infrastructure Training Program

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### Topic:

Electrical Vehicle Infrastructure Training Program

### Background:

The Electric Vehicle market continues to expand in North America, and it is critical that EVSE equipment is properly installed to the highest standards of safety and quality. The EVITP program was designed to provide installers with the most comprehensive classroom and hands-on training available in the market today. All EVITP Certified Installers must pass a certification exam for proof of knowledge and skill.

### Program/Curriculum:

#### Day One

- Introduction to Electric Vehicles (EVs)
- The History of EVs
- EV Types & Technology
- Modern EVs
- Commercial and Industrial EVs
- Charging Equipment Introduction
- AC EVSE
- DC Charging
- Wireless Charging
- EVSE Communications and Networks

#### Day Two

- Demonstrate awareness of the layout of the CEC
- Identify what installations are covered by the CEC
- Recognize, locate, and apply various Canadian Electrical Code (CEC) requirements as they apply to an Electric Vehicle (EV) charging system installations
- Identify specific Code requirements for EV charging equipment and installations
- Planning the EVSE installation - Load Calculations, and applicable general Code Requirements
- Building the EVSE installation - Conductor Sizing, Voltage Drop and Ampacity considerations
- Planning installation of EVSE on existing services
- Planning fleet installations of EVSE
- Size the elements of a branch circuit for an EVSE installation
- Calculate the capacity available for EVSE on existing services
- Size single-phase and three-phase feeders for a multiple EVSE installation

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- Size a service or feeder for a fleet installation of EVSE

### Day Three

- Size the elements of a branch circuit for an EVSE installation
- Calculate the capacity available for EVSE on existing services
- Size single-phase and three-phase feeders for a multiple EVSE installation
- Size a service or feeder for a fleet installation of EVSE
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### Seating Distribution Report:

The EVITP program will provide a total of 12 seats per year, for 5 years, this cumulates to a total of 60 seats. Year two will provide 12 seats due to year ones transfer to year two.