



CPD

25 hours

# Electric Vehicle Charging Equipment Installation

This course will cover the design, specification and installation of Electric Vehicle Charging Equipment Installations. The course will look at the requirements detailed in Section 722 of BS 7671:2018+A1:2020 as well as the IET Code of Practice for Electric Vehicle Charging Equipment Installations, 4th Edition.

Gain clarity on the best practices for electric vehicle equipment installations, including selection and use of earthing systems to protect against electric shock. The course also expands on vehicle-to-grid, on street installations and smart infrastructure integration.

## Key features

- Graham Kenyon is an expert in the field who works closely with the IET and authored the Code of Practice relating to this course
- All course content aligns with BS 7671:2018 and the 4th Edition of the IET Code of Practice for Electric Vehicle Charging Equipment Installation.

## Pre-requisites

Learners will be expected to have a working knowledge of BS 7671 - 18th Edition Certificate in the Requirements for Electrical Installations, and have access to copies of:

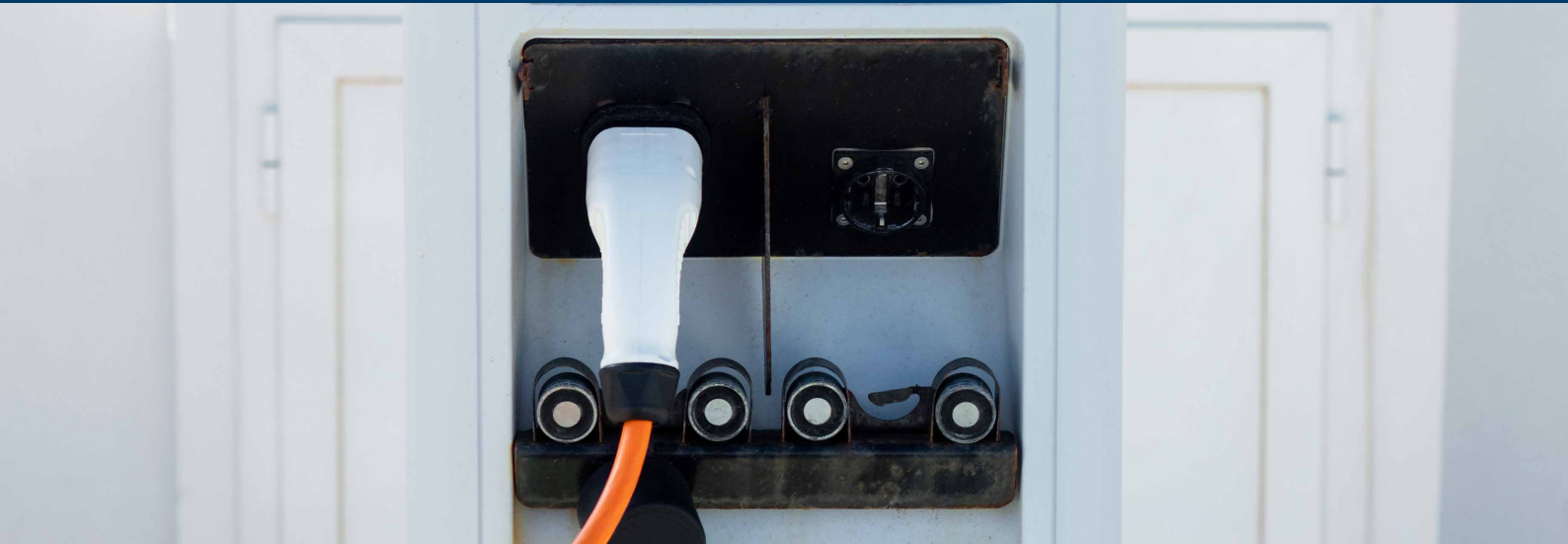
- IET Wiring Regulations (18th Edition) BS 7671:2018
- IET Guidance Notes 1, 3 and 7 (8th Edition)
- IET Code of Practice for Electric Vehicle Charging Equipment Installation (4th Edition).

## Course units include

- Overview of vehicle charging modes and equipment
- BS 7671 Requirements for EV Charging Installations
- Issues to Overcome
- General Arrangements prior to Installation
- Earthing Arrangements
- TN-C-S (PME) and public TN-S Systems
- Electrical Separation and Whole Installation
- TT Charge-Point Conversion Options for TN-C-S Systems
- Installations for Dwellings
- On-Street Installations
- Commercial and Industrial Installations
- Inspection, Testing and Maintenance Requirements
- Vehicle as Storage
- Integration and SMART Infrastructure
- Wireless Power Transfer (WPT) Installations
- Final Assessment

## What you'll learn

- Understand how to specify electric vehicle charging installations
- Understand how to design electrical installations containing electric vehicle charging and supply equipment
- Understand the steps involved in the planning, installation and commissioning of electric vehicle charging equipment installations
- Understand key risks and hazards for various types of installation, and how to address them, including installations for: dwellings; commercial and industrial premises; on-street; and filling stations



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## Related courses

- Applying the 18th Edition IET Wiring Regulations: The Onsite Guide Training Course
- 18th Edition Certificate in the Requirements for Electrical Installations - Full Course
- 18th Edition Certificate in the Requirements for Electrical Installations - Update Course
- Connected and Autonomous Vehicles

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**CPD**

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