

Training

**Level 3 Award in the Design and Installation
of Domestic & Small Commercial Electric
Vehicle Charging Installations**
City & Guilds 2921-31

Overview:

This City & Guilds course for qualified electricians aims to provide expert guidance to learners wishing to gain knowledge and understanding on Electric Vehicle charging equipment installation

The qualification includes additional methods of protecting against open PEN conductor faults and how to assess if an installation has an issue with diverted neutral current. It also includes smart functions in EVSE and relevant items within the installation as a whole. Integration into prosumer's electrical installations including the option of electric vehicles reverse feeding into the installation and/or supply grid.

Candidates will be assessed by a multiple-choice test and a short answer and scenario-based assignment.

Aim:

This qualification is being delivered over four evenings (6-9pm) and a fifth evening for the online assessment (6-7pm). By the end of the course learners will understand and be able to design and install domestic and small commercial electrical vehicle charging installations.

Content:

- Know the key requirements relating to electric vehicle charging equipment.
- Know different types and features of electric vehicle charging equipment.
- Understand the requirements for inspection, testing, commissioning and handover of electric vehicle charging equipment and circuits.
- Understand the use of vehicles as electrical energy storage systems as part of prosumer's installations.

Pre-Course Requirements:

The course is designed for qualified electricians with a minimum of 18th Edition qualification and an expectation of meeting the following criteria:

- Minimum age 18 years old (mandatory)
- Must be able to demonstrate the following competencies
- Be able to correctly install and terminate: pvc/pvc cable (twin and earth)
- Steel Wire armoured cable (swa)
- Be able to carry out an initial verification (inspection & testing) on an electrical installation and complete the necessary paperwork
- Meet the 'Learner entry requirements' refer to page 8 of the Handbook (i.e., hold an ECS Gold Card, SJIB Electrician or Approved Electrician Card).

Presenters:

Dumfries & Galloway College, Dumfries

Fees:

SELECT Members - £365 + VAT (£438)

Non Members - £445 + VAT (£534)