City & Guilds
Believe you can

Powering the Future with Skills

Electric Vehicle Charging Installation Qualifications

Qualifications that have been specifically designed and developed by the industry, for the industry, in order to meet the new skills standard benchmark for EV charge point design and installations across the United Kingdom.

The Rise of Electric Vehicles: A Transformational Era

In November 2020, the Prime Minister put the UK on course to be the fastest nation in the G7 to decarbonise road transport, announcing that sales of all new petrol and diesel cars and vans would end in 2030.

With this motivation driving momentum, electric vehicles (EVs) are expected to experienceexponential growth in the coming years. And, as the number of battery-electric cars continues to rise, there is a pressing need to rapidly expand the EV charging infrastructure throughout the UK. The goal is to establish 500,000 charge points across the country's network by 2030.

As a result, the demand for qualified electricians capable of installing and maintaining EV charge points has reached an all-time high.

Reskilling the workforce.

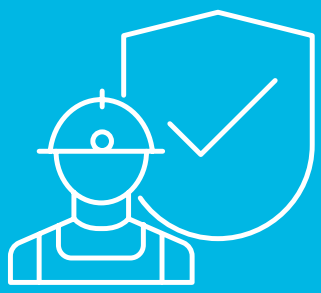
In order to meet the growing demand for EV charging infrastructure, it is crucial to provide electricians with specialized training for the installation and maintenance of EV charging stations.

This not only guarantees the safety and efficiency of the charging infrastructure but also facilitates the transition towards a greener and more sustainable future.

The expansion of EV charging infrastructure presents electrical businesses and installers with a significant opportunity to diversify and specialise in this emerging market. Possessing the right skills and qualifications becomes a passport to success in this industry.

65%

Nearly 65% of employers report facing challenges in finding qualified and competent electricians for designing and installing EV charge points.



Bridging the Skills Gap in the UK's Electric Vehicle Revolution

Developed by the industry, for the industry.

The electrical industry needs a qualified workforce able to install Electrical Vehicle Charger (EVC) points safely and at scale in support of the transport infrastructure strategy.

City & Guilds collaborated with employers and professional associations, including the Electrical Contractors Association (ECA), to design the new EV Charging industry standards. These standards were developed to address the industry's requirements and build the necessary skills and knowledge needed to meet the demands of the sector.

Furthermore, City & Guilds has developed new EV Charging qualifications that aim to train skilled electricians, electrical installers and engineers in accordance with these industry standards. These qualifications equip individuals with the necessary expertise to work safely and confidently in the EV Charging sector.

Introducing City & Guilds EV Charging Installation Qualifications:

Unlock a world of opportunities and join the thriving electric vehicle industry with City & Guilds' comprehensive range of EV Charging Installation Qualifications.

As the demand for skilled electricians to install EV charge points soars, our industry-leading qualifications empower individuals like you to meet the rising needs of this rapidly evolving sector.

Find out more about the qualifications >

City & Guilds 2921-31

Design and Installation of domestic and small commercial chargers

Entry Requirements

This course is intended for qualified electricians and installers who are looking to enhance their current skillset to allow them to install domestic, small commercial and 'on street' vehicle charging points.

Course Objectives:

- Know the key requirements relating to electric vehicle charging equipment.
- Know different types and features of electric vehicle charging equipment.
- Understand preparation for design and installation of electric vehicle charging equipment.
- Understand requirements for inspection, testing, commissioning and handover of electric vehicle charging equipment and circuits.

Qualification Achieved:

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

To find out more speak to a City & Guilds Approved Centre using the contact details on the back page.

City & Guilds 2921-32

Design and quality assurance of largescale (superfast) chargers

Entry Requirements:

This course is intended for qualified electricians and installers who are looking to enhance their current skillset to allow them to design and quality assure largescale (superfast) electric vehicle charging installations.

Course Objectives:

- How to redesign commercial premises and public spaces to accommodate electric vehicle chargers.
- Safety requirements for electric vehicle charging sites.
- Features of electric vehicle charging equipment and associated accessories.
- Maintenance strategy for electric vehicle charging systems.
- Understand electrical supply systems.
- Know the different locations, design and types of charging bays.
- Know the technical assurance process for designing electric vehicle charging sites.

Qualification Achieved:

City & Guilds Level 3 Award in the Design and Quality Assurance of Largescale Electric Vehicle Charging Installations (2921-32).

To find out more speak to a City & Guilds Approved Centre using the contact details on the back page.

City & Guilds 2921-33

Installation and maintenance of largescale (super-fast) chargers

Entry Requirements:

This course is intended for qualified electricians and installers who are looking to enhance their current skillset to allow them to install and maintain largescale (superfast) electric vehicle charging installations.

Course Objectives:

- The scope of work required for largescale EVC installations.
- Safety requirements for electric vehicle charging installations.
- Infrastructure associated with electric vehicle charging sites.
- The infrastructure equipment associated with largescale electric vehicle charging installations.
- Commissioning and handover procedures for EVC sites.
- Maintenance procedures for largescale electric vehicle charging installations.

Qualification Achieved:

City & Guilds Level 3 Award for the Installation and Maintenance of Largescale Electric Vehicle Charging Installations (2921-33).

To find out more speak to a City & Guilds Approved Centre using the contact details on the back page.

How the new skills standard is recognised

Electrical Card Service (Site card):

These qualifications have been approved by ECS (Electrotechnical Certification Scheme) allowing existing gold card members to add this new suite of qualifications onto their card.

Electricians and electrical installers will have the recognised status of being able to carry out EVC installation services across public and commercial sites.

We are also issuing a digital credential to learners who have completed these qualifications.

Entry Requirements

The suite of qualifications is designed for qualified electricians, electrical installers, and electrical engineers who seek to expand their knowledge and understanding on the design and installation of Electric Vehicle charging equipment.

Learners must hold one of the following qualifications:

- City & Guilds Level 3 NVQ Diploma in Installing Electrotechnical Systems and Equipment (Buildings, Structures and the Environment) (2357-13/91)
- City & Guilds Level 3 NVQ Diploma in Electrotechnical Services (Electrical Maintenance) (2357-23/92)
- City & Guilds Level 3 in Electrotechnical Services Experienced Worker (2356-99)
- City & Guilds Level 3 Electrotechnical Experienced Worker Qualification (2346-03
- Equivalent historical qualifications (see EAS Table 4B/4C) EAS Qualifications guide December 2020 (theiet.org)

or

- ECS Gold Card, JIB Electrician or Approved Electrician Card

For learners in Scotland:

- Any of the above or
- SVQ in Electrical Installation at SCQF level 7 + up to date BS 7671 Requirements for Electrical Installations

Other Awarding Organisation equivalences will also be acceptable.

The qualifications above must have been achieved no more than 5 years prior to starting this qualification or there must be evidence the candidate has remained current by completing relevant CPD such as the City & Guilds Level 3 Award in the Requirements for Electrical Installations BS 7671:2018 (2382-22) or equivalent.

For the City & Guilds Level 3 Award in the Design and Quality Assurance of Largescale Electric Vehicle Charging Installations (2921-32), other appropriate qualifications in the design of electrical systems should also be considered such as:

- HNC Diploma in Electrical and Electronic Engineering
- City & Guilds Level 4 Award in the Design and Verification of Electrical Installations (2396).

We're here to support you

We combine a long history of dedication to skills development with investment in technology and a focus on helping centres efficiently maximise the success of their learners.

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Find out more >

general.enquiries@cityandguilds.com

Have a question?

Our experts are here to answer your questions about our EV Charging offer. Fill out our form to get responses straight to your mailbox.

Complete the question form >

Deliver our qualifications

We are on hand to offer you advice and support on any of our EV Charging qualifications.

Deliver these qualifications >

Looking for an Approved Centre?

Are you an electrician and interested in studying our EV Charging Installation qualifications? Downloaded our list of Approved Centres that offering our 2921 qualifications in the UK.

Download Approved Centre List >

Accreditation services?

If you're looking for a tailored solution – such as accrediting your own training, our team of technical advisors and industry managers can help.

Find out more about Assured >

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