

General Enquiries

Tel: 0300 300 0090

Email: enquiries@stockport.tscg.ac.uk Website:
stockport.tscg.ac.uk



Level 3 Award in the Installation and Maintenance of Small Scale Solar Photovoltaic Systems

| | |
|-------------|--|
| Location | Stockport College |
| Course Type | Adult |
| Department | Electrical Installation |
| Start Date | Monday 3rd June 2024 |
| Duration | Part-time, 0 Weeks |
| Time | 09:00 - 16:30 |
| Fee | £ 495.00 You may be eligible for support with your tuition fees - please visit the college website - funding and finance page for further information |
| Course Code | SPQ-GS3A-1330 |

Course Overview

This course has been developed with the aim of providing electricians with the skills and knowledge required to install small scale photovoltaic (PV) systems. The course has been structured to meet the requirements of the National Occupational Standards and is recognised as a demonstration of competence for the Microgeneration Certification Scheme (MCS).

Course Requirements

Trainees should hold a formal craft qualification e.g.

N/SVQ Level 3 in Electrical Installation (Buildings and Structures) and BS 7671: 2018 Requirements for Electrical Installations (18th Edition) qualification.

Or

Equivalent historical qualifications (as found in EAS Table 4B/4C) Electrotechnical Assessment Specification Guide August 2023

Or

ECS Gold Card, JIB Electrician or Approved Electrician Card Stand-alone technical certificates/vocationally related qualifications (VRQ) (non-competency based) are NOT acceptable.

What You Will Learn

This training program covers a range of essential knowledge and skills for working with solar photovoltaic systems. Participants will learn about health and safety risks, safe work practices, and regulations related to installation activities. They will understand the differences between AC and DC circuits in solar systems and the purpose of system components. Knowledge about solar module types, characteristics, and design principles for array size and positioning will be gained. The course includes preparatory work, layouts, and installation requirements for solar module arrays, following engineering recommendations for grid-tied systems. Participants will be equipped with information on protection techniques, testing, commissioning, and handover procedures. They will also learn to plan, install, inspect, test, commission, and handover new solar photovoltaic systems. Additionally, the program covers routine maintenance, fault diagnosis, and rectification for ongoing system performance. Overall, individuals completing this program will be capable of safely installing, maintaining, and troubleshooting solar photovoltaic systems.

Assessment

Assessments consist of a combination of practical and theory examinations.

Progression

Battery storage course city and guilds 2919-02

Career Options

Upon completing the Level 3 Award in the Installation and Maintenance of Small Scale Solar Photovoltaic Systems, individuals can explore various career options in the renewable energy and solar technology sector. Some potential career paths include:

Solar PV Installer: Graduates can work as solar PV installers, responsible for the installation and maintenance of small-scale solar photovoltaic systems on residential and commercial properties.

Renewable Energy Technician: Individuals may pursue a career as a renewable energy technician, working with various renewable energy systems and specialising in small-scale solar photovoltaic installations.

Solar System Designer: Graduates may opt for roles involving the design of small-scale solar photovoltaic systems, considering factors such as system size, layout, and efficiency.

Energy Consultant: Professionals can work as energy consultants, advising clients on incorporating small-scale solar PV systems to improve energy efficiency and reduce environmental impact.

Solar Project Manager: Individuals can explore roles as project managers overseeing the planning, execution, and completion of small-scale solar photovoltaic projects.

Maintenance Technician: Graduates may specialise in the maintenance and servicing of small-scale solar photovoltaic systems to ensure their optimal performance over time.

Solar System Inspector: Professionals can work in roles involving the inspection and testing of small-scale solar photovoltaic installations to ensure compliance with standards and regulations.

Sales Representative (Solar Industry): Graduates may pursue sales roles, promoting and selling small-scale solar PV systems to residential or commercial clients.

Entrepreneur/Small Business Owner: With the right skills and experience, individuals may consider starting their own business providing installation, maintenance, and consulting services for small-scale solar photovoltaic systems.

Educator/Trainer: Professionals can explore roles in education and training, sharing their expertise in small-scale solar PV systems with industry professionals or aspiring technicians.

The skills acquired during the program will equip individuals with the knowledge and practical experience needed for a successful career in the growing field of solar energy. The demand for renewable energy solutions, including small-scale solar photovoltaic systems, continues to rise, providing ample opportunities for those with expertise in this area.

Mandatory Units

Know the requirements to install, commission and handover small scale solar photovoltaic systems

Install, commission and handover small scale solar photovoltaic systems

Know the requirements to inspect, service and maintain small scale solar photovoltaic systems

Inspect, service and maintain small scale solar photovoltaic systems

Contact Details

For further information please contact T: 0161 886 7070 or E: info@trafford.ac.uk

Disclaimer

Although every care has been taken to ensure that the information contained within this document is accurate, there may be changes to this programme and provision. We will endeavour to keep prospective and current students updated where appropriate and when the information becomes available.