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Domestic Solar Photovoltaic Systems (3-days)

Location	Stockport College
Course Type	Adult
Department	Plumbing & Gas
Start Date	Friday 1st August 2025
Duration	Part-time, 1 Year
Time	09:00 - 16:30
Fee	£ 300.00 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-GSXZ-1400

Course Overview

This 3-day 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 normally consist of a combination of practical and theory examinations.
Recognised as a demonstration of competence for the Microgeneration Certification Scheme (MCS).

Progression

Battery storage course

Career Options

Upon completing the Domestic 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
Renewable Energy Technician
Solar System Designer
Energy Consultant
Solar Project Manager
Maintenance Technician
Solar System Inspector
Sales Representative (Solar Industry)
Entrepreneur/Small Business Owner
Educator/Trainer

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.