



EAL - Solar PV Installers Course



Course Aim

The renewable energy market is growing fast. If you want to get ahead in this growing industry, then this Solar PV Course is the one for you. This course doesn't just cover the theory, you will also get hands-on experience of fitting solar PV equipment and is designed to provide the necessary skills for the design, installation, testing, commissioning, handover, servicing and fault-finding of solar photovoltaic systems.



Who Should Attend?

This course is ideal for electricians and domestic installers looking to up skill and provide services to the growing renewable energy sector. If you are registered with a competent person scheme it will support your application to become MCS registered.

Delegates must have a good knowledge of the current edition of BS7671, and of inspection, testing and certification of electrical installations.



Course Duration

This is a 4 day course.



Certification

Upon successful completion of the course, delegates will be awarded an EAL accredited certificate.

Please note that you must bring photographic ID such as a passport or driving licence with you in order to sit the assessments on this course.



Pre-Requisites

Delegates must hold one of the following and produce prior to attendance:

- Level 3 NVQ Diploma in Installing Electrotechnical Systems and Equipment (Buildings, Structures and the Environment)
- Level 3 NVQ Diploma in Electrotechnical Services (Electrical Maintenance)
- Level 3 Electrotechnical Qualification
- Level 3 in Electrotechnical Services Experienced Worker
- Level 3 NVQ in Electrotechnical Services
- Level 3 Electrotechnical Experienced Worker Qualification.
- Level 3 Electrotechnical in Dwellings
- Level 3 Electrotechnical in Dwellings Experienced Worker Qualification
- EAL Building Services Engineering (Level 3) - Electrotechnical Installation

Equivalent historical qualifications. See EAS Table 4B/4C, and the EAS Qualifications Guide and;

- A Level 3 Award to the current edition of BS 7671 Requirements for Electrical Installations (if not included in the above)

Or

- ECS Gold Card for a Domestic Electrician, JIB Electrician, or Approved Electrician Card



Maximum Delegates

Maximum attendees: 4 delegates.

Safety / Value / Availability / Support



[hsstraining.com](https://www.hsstraining.com)



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Agenda

This course is focused on UK-based grid connected systems. During the classroom-based sessions you will cover the following:

- Photovoltaic Panels in context of Renewable Technologies
- How a Photovoltaic System Works – Principles and Components
- Design of a PV System
- Installation of a PV System
- Commissioning and Client Hand-Over
- Maintenance and Fault Finding
- On the last day of the course you will take your assessments. This will involve connecting up real solar panels to live inverters in our centre and ensuring they are all working correctly.

Key practical skills learned and assessed will be:

- How to plan and prepare for installation
- How to install the roof array
- How to install cabling, inverter and AC supply
- Schedule of inspections
- PV array tests
- Commission the system including; electrical installation certs, schedule of test results, DNO notification, Handover system
- Fault finding and rectification
- Connectors and hose end couplings
- Directly from the water jet

- Hose end fittings
- Effects of impact by high pressure water jet
- Routine care & inspection
- Safety points during operation
- Scope of surface cleaning & preparation applications
- Range of jetting machines suitable for surface cleaning/preparation
- Review nozzle principles
- Associated ancillary equipment
- Hose used in surface cleaning & preparation applications
- Damage & wear possibilities
- Hose ancillaries
- Range of jetting machines used
- Engine controls & instruments
- Auto engine speed control systems
- Pressure safety relief
- Water supply/delivery features
- Filtration requirements
- Boost feed pumps
- Information & assessment
- Base material & contaminants
- Selection of equipment & manning levels
- Safe system of work
- Setting-up
- Monitoring of operation

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