



Level 3 Award in the Installation of Small-Scale Solar Photovoltaic (PV) Systems

This qualification is aimed at practicing electricians who wish to develop the skills and knowledge required to safely and competently install, commission and handover solar photovoltaic systems.

Course duration 4 days

Who should attend?

The qualification has been designed for electricians who want to develop their knowledge and skills in the subject area and wish to use the qualification to progress to formal recognition of their competence via registration with an appropriate scheme.

Candidates must hold one of the following:

- 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.

Evidence will be requested to be provided once your booking has been made

Learning outcomes

This qualification focuses upon the competencies required to install (including testing and commissioning), and handover grid-connected solar PV systems with an electrical output of up to 5-kilowatt peak (kWp) connected to both single and three-phase installations.

Course outline

- The new landscape - Distributed generation and the 'Prosumer'
- An overview of key safety considerations, legislation and industry guidance
- The fundamental differences between AC and DC including voltage ranges, sources and specific risks
- System component selection
- Fundamental system design principles – including the requirements of BS 7671, Section 712
- Inspection, testing and commissioning
- Notification and handover - G98, G99

This qualification includes;

- Practical assessment (locally assessed, in simulated conditions), and;
- Multiple-choice on-screen exam (closed book and invigilated)

What do I need to have with me?

- A copy of BS 7671 (latest edition)
- A scientific calculator
- A device with internet access (such as a phone, tablet, or laptop)
- IET Code of Practice for Grid-connected Solar Photovoltaic Systems (latest edition)

Optional

- Hand tools

Assessment body



Next steps

Fundamentals of Electrical Energy Storage Systems (EESS)

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