



Level 3 Award in Small-Scale Solar Photovoltaic Systems and Electrical Energy Storage Systems - LCL Awards



Who Should Attend?

This course is aimed at experienced delegates who **MUST** have the following qualifications:

- A Level 3 Award in the Requirements for Electrical Installations BS7671 (current edition) and
- A Level 3 Award in the Initial Verification and Certification of Electrical Installations or a combined award including Periodic Inspection & Testing

OR

Scottish equivalents through SELECT.

- A SELECT Customised Award in Requirements for Electrical Installations to BS 7671 (218) and
- A SELECT Customised Award in Initial Verification (209) or a combined award including Periodic Inspection & Testing (214)

If the applicant does not hold a Level 3 Award in the Initial Verification and Certification of Electrical Installations or SELECT equivalent as above, then they **MUST** hold one of the following:

- A Level 3 NVQ Diploma in Installing Electrotechnical Systems and Equipment
- An SVQ in Electrical Installations (SCQF level 7)
- A Level 3 Certificate in Installing, Testing and Ensuring Compliance of Electrical Installations in Dwellings
- An Experienced Worker Qualification
- An ECS Gold Card (Installation or Approved Electrician)

- Be a member of a competent person scheme, as a Qualified Supervisor that meets the requirements of the Electrotechnical Assessment Specification (EAS)

Delegates attending this course are required to have the following course books **BEFORE** attending this course:

- IET On-site Guide 18th Edition A2:2022
- IET Wiring Regulations 18th Edition A2:2022
- Code of Practice for Grid-connected Solar Photovoltaic Systems, 2nd Edition
- IET Code of Practice Electrical Energy Storage Systems 2nd Edition
- IET Guidance Note 3: Inspection & Testing - A2:2022

If you have limited or no electrical experience/knowledge, it is advised that you contact us to discuss your training requirements **BEFORE** booking onto any of our electrical courses.

Please contact us on 0345 605 0006 to discuss further. Any courses booked without the correct prior knowledge or experience will result in **NO REFUNDS** given.

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Course Aim

The aim of this course is to equip delegates with the knowledge and skills needed to install and maintain small-scale grid tied photovoltaic systems and then to be able to design, install and commission electrical energy storage systems. This course gives delegates a MCS accreditation which is recognised by the Microgeneration Certification Scheme. This course has been designed in conjunction with the latest IET Code of Practice.

This course allows delegates to apply their knowledge and skills learnt according to generic industry practices.

*** Please note** this course is not manufacturer specific.

We can offer the Level 3 Award in the Installation and Maintenance of Small-Scale Solar Photovoltaic Systems - LCL Awards (insert link here) or the [Level 3 Award in the Design, Installation and Commissioning of Electrical Energy Storage Systems \(EESS\)](#) as stand-alone courses should you not require the combined course.



Course Duration

This is a 5 day course.



Maximum Delegates

Maximum attendees: 8 delegates.



Certification

Delegates successfully completing the course will receive an LCL Awards Level 3 Certificate.

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Agenda

- Know the requirements to install, commission and handover small scale solar photovoltaic systems.
- Know the requirements to inspect, service and maintain small scale solar photovoltaic systems.
- Know the key requirements for installation of electrical energy storage systems
- Know and identify equipment, arrangements and operating modes of electrical energy storage systems.
- Understand the preparation of design and installation of electrical energy storage systems.
- Understand requirements for initial verification and handover of electrical energy storage systems.
- Be able to conduct initial verification and handover of electrical energy storage systems.

The first section of the course, the installation and maintenance of small-scale grid tied photovoltaic systems covers the below topics:

- System configurations
- Solar system design
- Solar modules
- Solar module mounting structures & arrays
- Electrical wiring of the solar system and associated components Grid-connected solar systems
- Sizing solar systems
- System testing & commissioning

The second section of the course, the design, installation and commissioning of electrical energy storage system, covers the below topics:

- Battery system modes
- Battery system design
- Legislation for a switched alternative source of energy
- Battery packaged systems - coupling
- Electrical wiring of the battery system and associated components
- Grid-connected battery systems
- Sizing battery systems
- System testing & commissioning

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