



Level 3 Award In the Installation of Small Scale Solar Photovoltaic Systems EAL (Part-Time)

Over the past few years, there has been a movement towards using renewable technologies both in domestic and commercial settings as an alternative source of power generation. This has seen a revival in demand in solar technology and more and more projects are requiring their installation as part of their electrical installation. The Level 3 EAL Award in Installation of Solar PV Systems is designed to provide candidates with the skills and knowledge to be able to safely install, commission and hand over small scale solar photovoltaic systems in line with regulations and relevant code of practices. On completion of the course, candidates will be able to plan, prepare grid connected solar photovoltaic systems as defined within BS7671, within scope of Engineering G98 and G99 connected to both single and three phase installations. This qualification is recognized by MCS as part of certification scheme.

Entry Requirements

This course is designed for practicing electricians who wish to move into the installation of solar PV systems. Candidates ideally should be qualified electricians to NVQ Level 3 standard. Candidates should have a good working knowledge and are advised to have completed the following qualifications prior to enrolling on the course:

- 18th Edition BS7671
- Test & Inspection – Initial Verification & Periodic Inspection (2391,2394/2395)

Career Prospects

Work in the renewables sector.

Course Modules

“The qualification comprises of knowledge/understanding and performance units, which between them cover the skills, knowledge and understanding required for the installation of small scale SPV systems, e.g. dwelling installations. Know the requirements to install, commission and handover small scale solar photovoltaic systems.

- Identify H&S risks and safe systems of work associated with solar photovoltaic systems installation work
- Identify the relevant regulations/standards relating to practical installation, testing and commission activities

Coleg Afan
Coleg Bannau Brycheiniog
Academi Chwaraeon Llandarcy
Canolfan Ragoriaeth Adeiladwaith Maesteg
Coleg Castell-nedd
Coleg Y Drenewydd
Coleg Pontardawe
Canolfan Adeiladwaith Abertawe

Afan College
Brecon Beacons College
Llandarcy Academy of Sport
Maesteg Construction Centre of Excellence
Neath College
Newtown College
Pontardawe College
Swansea Construction Centre





for solar photovoltaic systems installation work

- Understand the differences between a.c and d.c circuits within solar photovoltaic systems and layouts within the grid tied systems.
- Understand the purpose of solar photovoltaic system components
- Understand the types of characteristics and typical conversion efficiencies of solar photovoltaic modules.
- Understand fundamental design principles used to determine solar photovoltaic system module array size and position requirements.
- Understand preparatory work required for solar photo voltaic system installation work and layouts and the requirements for installing solar photovoltaic module arrays.
- Understand solar photovoltaic system protection techniques and components.
- Understand the requirements to test and commission solar photovoltaic systems.

Assessment

The assessment of the qualification involves the following aspects:

- Knowledge Unit: onscreen exams
- Performance Unit: locally assessed, either through practical activities in the workplace or as appropriate; in simulated conditions.

STUDY MODE

PT

LOCATION

Afan College - 0330 818 8100

COURSE LENGTH

1W

FEES

23/24 fees: £295

Coleg Afan
Coleg Bannau Brycheiniog
Academi Chwaraeon Llandarcy
Canolfan Ragoriaeth Adeiladwaith Maesteg
Coleg Castell-nedd
Coleg Y Drenewydd
Coleg Pontardawe
Canolfan Adeiladwaith Abertawe

Afan College
Brecon Beacons College
Llandarcy Academy of Sport
Maesteg Construction Centre of Excellence
Neath College
Newtown College
Pontardawe College
Swansea Construction Centre

