

# Skills Bootcamp in Solar PV & EESS Systems



## What are Skills bootcamps?

Skills bootcamps are substantially funded 60-hour training programmes, which enable Sole Traders and SMEs to upskill in Level 2/3 accredited training.

This programme has been mapped against UK Regulatory Framework and National Level descriptors. It meets the requirements of the minimum Technical Competency document for Solar PV and Electrical Energy Storage Systems, in accordance with the IET Code of Practice, and the updated BS 7671: 2018 Requirements for Electrical Installations (18th Edition).

It is recognised as a demonstration of competence for the Microgeneration Certification Scheme (MCS).

Funded by the Department for Education (DFE), as part of the Government's Lifetime Skills Guarantee.

Our comprehensive 8-day training programme will equip you with the knowledge and hands-on experience needed to design, install and maintain Solar PV and EESS systems, one of the most effective solutions for renewable energy heating.



### DAY 1 Solar PV Theory

1. Understanding the principles of photovoltaic technology
2. Benefits of a PV system in relation to Economic and Environmental
3. Advantages and disadvantages of a PV system
4. Types of PV system in relation to Grid-connection systems and Off-grid systems (Stand-alone systems)
5. Regulations and industry standards MCS standards, IET Code of Practice for Solar PV and BS 7671 Wiring Requirements
6. Smart Export Guarantee

### DAY 2 Solar PV Theory

1. Solar radiation and its impact on power generation. Power productions and estimations
2. Inverters, DC and AC circuits, charge controllers. Legal considerations related to solar PV installations
3. System calculations
4. Wiring practices
5. Testing and inspection methods
6. System designs and calculations

### DAY 3 Solar PV Theory

1. System designs and calculations
2. Commissioning and hand-over
3. Power productions and estimations
4. Inspection, Testing DC & AC, Documentation
5. Legal considerations related to solar PV installations
6. Functional Tests

For more information speak to our technical team.

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To register,  
SCAN Code



[www.greenskills.london](http://www.greenskills.london)  
[Greenskills@windsor-forest.ac.uk](mailto:Greenskills@windsor-forest.ac.uk)

#### DAY 4 Solar PV Assessment

1. Recap of days 1-3
2. Exploration of microgeneration equipment
3. Fault finding and problem solving
4. Practical Assessment

#### DAY 5 Solar PV Design

1. Considerations for system optimisation.
2. Smart Export guarantees.
3. Nicky's Law (requirements vs practicality)
4. Yield vs production.
5. DNO approval
6. Manufacturers guidelines

#### DAY 6 Solar PV practical

1. Introduction to Client Experience.
2. Preparation for installation
3. Cable preparations and terminations
4. Roof tile hook over view and installations
5. Panel installation and bird blocking

#### DAY 7 EESS

1. Initial Verification methods relevant to EESS
2. Handover and DNO Notification
3. References & Related Documents
4. Abbreviations & Specialist Terms

#### DAY 8 EESS

**Practical demonstration:** Hands-on training with real solar PV system components is crucial for effective learning.



#### Essie Khodadoust

A highly experienced electrical tutor, boasting over 20 years of industry experience, offers comprehensive instruction in electrical installation. Students gain a deep understanding of electrical science within an engaging and vibrant learning atmosphere



#### Nicky Petrou

Electrical Tutor specializing in solar panel installation and with over 10 years of experience in the electrical industry. Provides students with practical, industry-relevant training in a dynamic learning environment.

#### Who we work with



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#### Testimonials

##### 1. Carbon Rewind

"Good course – very useful to have a practicing electrician come and have a little chat with us"

##### 2. Housing Solutions

"The course was set out well and broken down into sections. Tutors were good, I have taken away the understanding of Solar PV systems, how it works and installation"

##### 3. Home Installations

"The course was delivered well. I have taken away a good knowledge of the topics"

