



Solar PV Installation for Roofers Short Course

NOCN Assured

Course Specification

Designed for roofing professionals, this practical short course provides the knowledge and hands-on skills required to support the installation of domestic solar PV systems, helping meet the growing demand for renewable energy and low carbon construction.



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Introduction to Apex Training

Apex Training is the training arm of The Verdancy Group, delivering accredited green skills programmes across Scotland and the wider UK. We specialise in practical, industry-focused learning that supports individuals and organisations to develop the knowledge required for the transition to a low-carbon built environment.

Training is delivered online, in our Apex Training Centres and through partner venues, with options for employer-based delivery where suitable. All programmes are led by practising industry specialists to ensure alignment and compliance with current standards, regulations and sector expectations.

About The Verdancy Group and NOCN

The Verdancy Group is a specialist provider of green skills training, consultancy, sustainability education, and workforce development. Our programmes are designed to meet emerging industry needs and support national and regional net zero goals.

For over three decades, NOCN has been at the forefront of creating opportunities through learning and skills development. As an educational charity, NOCN Group's primary objectives are to support learners in achieving their full potential and to assist organisations in flourishing. Their long-standing commitment to education and development underscores their contribution to personal and professional growth across various sectors.

Solar PV Installation for Roofers Short Course

Overview

The Solar PV Installation for Roofers short course is designed to provide roofing professionals with the practical knowledge and skills required to support the installation of domestic solar photovoltaic (PV) systems.

Building on existing roofing experience, the course introduces learners to solar power technology, industry standards, safe working practices, and the installation methods used for both in-roof and retrofit solar PV systems.

Delivered through a combination of classroom learning and practical workshop activity, the course gives learners hands-on experience using industry-standard tools, fixings, and equipment within a simulated installation environment.

Learners will develop an understanding of system layouts, panel fixing methods, electrical connections, and safe preparation for final electrical commissioning by qualified electricians, supporting the growing demand for renewable energy and low carbon construction skills across the UK.

Duration

The course has a total notional learning time of 21 hours, comprising:

→ Guided learning: approximately 21 hours

Delivery of this course is offered at our Apex Training Centre, Basingstoke.

Materials And Certification

Learners will be provided with access to all required learning materials through online or in-person delivery formats.

Learners who successfully meet the assessment requirements will receive a certificate of achievement issued by The Verdancy Group, assured by NOCN.

Who Is This Qualification For?

This course is designed for roofing apprentices, qualified roofers, and roofing professionals looking to expand their skills and support the growing demand for solar PV installation within the domestic construction and retrofit sectors.

It is suitable for individuals working independently or within larger roofing and construction companies who want to develop practical knowledge of solar panel installation and renewable technologies.

Assessment

Learners will complete an externally set, internally assessed, practical assessment. Assessment is graded on a pass or fail basis and focuses on safe working, correct installation methods, and completing work to a commercial standard.

Progression After This Qualification

Following completion of this course, learners may progress into further training and qualifications within renewable energy, retrofit, and low carbon construction. This may include more advanced solar PV installation training, electrical qualifications, retrofit qualifications, or wider renewable technologies programmes to support continued professional development within the growing green skills sector.

Course Structure and Learning Outcomes

There are four learning modules within the Solar PV Installation for Roofers.

Module 1 Solar Power

Module Content

- Understand the benefits of solar power
- Understand how solar panels work, and the makeup of a typical solar panel
- Understand the energy production and usage of power in the context of a domestic installation
- Understand the efficiency of a solar panel and why this can vary

Module 2 Standards and Responsibilities

Module Content

- Understand the responsibilities of a roofer installing solar panels
- Know the relevant industry standards and how to work to the standards
- Know how to work safely with solar panels, including safe electrical working, and lifting



Module 3 Installation

Module Content

- Know the design considerations of solar installations, including measuring and marking up, and taking into account wind and fire safety considerations
- Know and demonstrate the installation of in-roof panels and retrofit panels
- Understand how to safely isolate panels, and how to connect panels in series, parallel or a combination, and the role of an inverter in an installation
- Understand how to ensure the roof-side of an installation is safe for an electrician to complete

Module 4 Other Considerations

Module Content

- Understand the potential issues which may arise when installing solar panels
- Understand other considerations such as bird/pest proofing and the necessity
- Know the basics of solar panel maintenance



Version History

Version	Date	Summary of Changes	Actioned By	Reviewed / Approved By
Version 1.0	May 2026	First publication of the Solar PV Installation for Roofers Short Course	Apex Training (Author)	Verdancy QA Lead

Document Control Statement

This document is maintained by Apex Training, part of The Verdancy Group. All updates are recorded through internal quality assurance procedures. The most recent version of this specification supersedes all previous versions.



Apex Training Centre
Unit 3, Spectrum Court
Intec Business Park
Wade Road
Basingstoke, RG24 8NE

