

CERTIFIED SOLAR & ENERGY SYSTEMS TRAINING

Subject Area

Student Type

Study Mode

Construction &
Construction Trades

Adults

Part Time

What is the course about?

This intensive five-day Solar PV & Battery Storage training is designed to enable qualified electricians to meet the growing demand for low-carbon technologies in the domestic sector. Focused on bridging the specific knowledge and competency gaps in solar photovoltaic (PV) system design, installation, and maintenance, and small electrical energy storage, the programme provides practical, industry-recognised training aligned with current standards. By equipping existing electrical professionals with the expertise to deliver safe, efficient, and compliant solar PV installations, this project supports the expansion of renewable energy in new build properties, and the retrofitting of existing housing stock. The programme will ensure a job-ready, technically competent workforce capable of accelerating home decarbonisation, helping to meet government net-zero targets and reduce household carbon emissions at scale.

The training programme is designed to result in proven competence aligned with MCS standards, enabling participants to carry out domestic solar PV work to the required industry benchmarks. Training will be delivered through a blend of classroom-based learning and practical, hands-on sessions in our specialist Green Technology Hub, at our Warrington campus. All training will be mapped to the National Occupational Standards and assessed through externally verified methods, including portfolio-based evidence and practical assessments.

Through guided discussions and practical activities using a full-scale roofing rig fitted with working solar panels in our Green Technology Hub, students will gain the following accredited qualifications:

City & Guilds 2922-34 Level 3 Award in Small Solar Photovoltaic Systems

City & Guilds 2923-34 Level 3 Award in Small Electrical Energy Systems

Why should I choose the course?

The UK solar industry is experiencing rapid growth, with increasing demand for trained professionals to support the transition to renewable energy. By choosing our intensive five-day Solar PV & Battery Storage training, delivered in the state-of-the-art Green Technology Hub at Warrington campus, you'll gain hands-on experience with real solar panels and battery storage systems in a purpose-built training environment. You'll gain two City & Guilds accredited qualifications to support you to take advantage of new career opportunities in the expanding low-carbon energy workforce.

What will I learn?

Students will gain in-depth knowledge of solar photovoltaic (PV) system principles, including how solar energy is converted into electrical power, system components and configurations, site assessment, and system design.


The course covers electrical and mechanical integration of PV systems, grid connection requirements, commissioning procedures, and fault diagnosis. Students will also study key regulations and standards, including the IET Wiring Regulations



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(BS 7671), MCS standards, and health and safety legislation relevant to PV installation. This foundational knowledge enables students to understand both the theoretical and regulatory framework for safe, efficient, and compliant solar PV system deployment.

On completion, students will be competent in designing, installing, and commissioning small-scale solar PV systems in line with MCS and industry standards. They will be able to carry out site assessments, select appropriate system components, configure arrays, and perform mechanical and electrical installation tasks. Students will demonstrate practical skills in testing, commissioning, and maintaining PV systems, ensuring safety and compliance with relevant standards. The course will result in a Level 3 City & Guilds 2922 and 2923 qualification, recognised by the industry and enabling progression to work on MCS-certified installations or as part of retrofit and low-carbon energy projects.

What will the course lead on to?

This five-day intensive course offers valuable skills, knowledge, and competencies to support skilled electricians to secure promotion and/or new contracts in the rapidly growing low-carbon and renewable energy sector.

Are there any links with industry and university?

This course supports wider employability by encouraging key skills such as teamwork, communication, and professional conduct. Students will benefit from engaging discussions around career pathways in the solar and broader renewable energy sector.

Warrington & Vale Royal College has strong links with employers across the construction and housing sectors who are actively seeking skilled workers in solar PV and low-carbon technologies. By the end of the course, students will be qualified in installing and maintaining Solar PV and Small System Energy Storage, and will have the confidence and awareness needed to take the next step in their career—whether that is securing new contracts, promotion, or exploring roles in the low-carbon energy industry.

What support is available?

We have a team of staff dedicated to providing learning support if it is required and a Wellbeing Team that is on hand to offer guidance, support and help when needed. Additionally, eligible students can access a wide range of finance and funding support to help them during their time at college.

For further information on student support please visit: <https://www.wvr.ac.uk/college-life/student-support/>

Why should I choose to study the course at Warrington & Vale Royal College?

You should choose to study this course at Warrington & Vale Royal College because you'll benefit from expert teaching and hands-on training in our specialist Green Technology Hub. This purpose-built facility offers access to the latest low-carbon equipment and systems, helping you develop industry-relevant skills in a real-world environment. The college has strong employer links, giving you valuable opportunities for guest lectures and potential job pathways. You'll also gain essential employability skills and tailored support, preparing you for a successful career in the fast-growing green energy sector.

What are the entry requirements?

To enrol on this course, you must be a qualified, practising electrician aged 18 or over. You need to hold an ECS Gold Card or a relevant Level 3 electrotechnical qualification (such as C&G 5357, 2357, or 2346), usually alongside the 18th Edition Wiring



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What are my funding options?

This course is co-funded by the Department of Energy Security & Net Zero through the Warm Homes Skills Programme. The overall cost of the course is £1500 per student. The fee per eligible student is £750 with the Warm Homes Skills Programme funding the remaining £750.

For more information about financial support, please visit <https://www.wvr.ac.uk/higher-education/higher-education-help-finances/> or contact our friendly Learner Services Team on 01925 494 400.

Are there any additional costs associated with the course?

There are no additional costs for students taking part in this course. All tools, materials, and safety equipment are provided.



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