



 **PHOTOVOLTAICS**
CERTIFIED INSTALLER

Raising
standards.
Promoting
confidence

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 **PVTRIN**
INSTALLER CERTIFICATION

Supported by
 **INTELLIGENT ENERGY**
EUROPE 



Find job opportunities in the PV market

The European photovoltaic (PV) market has been booming over the last decade, reaching the 51 GW at the end of 2011. The PV industry forecasts a total installed capacity of over 600 GW for 2030.

The market's growth is further favored by the financial incentives provided to the investors. In pursuit of achieving their mandatory targets of 20% share of energy from renewables by 2020, most of the EU countries encourage their installations, including the installation of PV systems on buildings.

“Becoming a certified PV installer you gain professional advantage to a growing job market and distinguish yourself from the competition joining the European skilled workforce database.”

The binding targets of the Renewable Energy Directive, the attractive support schemes and the rising interest on PV investments result to an increasing demand for qualified technicians to install, repair and maintain the PV systems.

Even in these challenging economic times, there are job opportunities for technicians who are active in the installation and maintenance of small scale PVs. In EU, 465.000 PV jobs are estimated by 2015, reaching 900.000 in 2020; almost half of them in installation and maintenance of systems.

Why become a certified PV installer?

Investors are aware that choosing a qualified PV installer is critical for the quality and performance of their investment. Nowadays, they seek for skills certification and quality assurance in all phases of their PV installation (design, installation and maintenance).

Certification can provide reassurance that an installer possesses the knowledge, skills and competence to complete a PV installation safely and effectively. Certification is about raising standards and promoting confidence. Employing a certified installer, customers are assured greater peace of mind for better system performance, less technical failures and reduced investment risks for their PV installation.



The PVTRIN Scheme

The PVTRIN Training and Certification scheme addresses the market needs for a qualified installer's workforce. It offers to the installers:

- Quality training courses
- Flexible training opportunities through e-learning, practical guides, useful tools
- Advancement and continuous updating of their knowledge and technical skills
- Employability; Recognition and professional competitive advantage due to their certification according acknowledged quality standards
- Mobility; the certification provides the “passport” to the EU job market

The PVTRIN scheme incorporates the criteria set by the 2009/28/EC Directive for qualification schemes and certified training courses in each Member State, as well as the requirements of the national legislation.

“Being a PVTRIN Certified Installer means that the installer have been trained and assessed according to the PVTRIN certification requirements and has agreed to comply with all applicable codes and professional standards.”

The EU Initiative PVTRIN

The PVTRIN Training and Certification Scheme, is developed within the framework of the European Project PVTRIN and is co-financed by the Intelligent Energy Europe programme of the European Commission. The PVTRIN Consortium consists of the:

- Technical University of Crete (TUC), GR – **Project Coordinator**
- Agency of Brasov for the Management of Energy and Environment (ABMEE), RO
- Building Research Establishment Limited (BRE), UK
- Energy Institute Hrvoje Požar (EIHP), Croatia
- European Photovoltaic Industry Association (EPIA), EU
- Scientific and Technical Chamber of Cyprus (ETEK), Cyprus
- Sofia Energy Centre (SEC), Bulgaria
- Tecnalía (TECNALIA), Spain
- Technical Chamber of Greece –Western Crete (TEE), Greece

Join the PVTRIN training course

Becoming a qualified PV installer opens job opportunities to an expanding market in the coming years. The PVTRIN training course covers the design, installation and maintenance principles of small scale PV installation. Participants develop their skills and understanding of basic solar theory, systems components, design, installation, commissioning and handover of a small scale PV system, including maintenance and troubleshooting.

The PVTRIN course consists of two parts, the theoretical and practical training. The standard training is an 8-days program consisting of class lectures, exercises and hands-on training in demonstration facilities and laboratories. Participants are enabled to study online, to self evaluate their progress and to get further training through the PVTRIN e-learning platform.

The training modules are:

1. Solar energy basics
2. Design principles
3. BAPV and BIPV
4. Installation-Safety
5. Maintenance and troubleshooting
6. Case studies-best practices
7. Example installation of a small scale PV in building
8. Quality management and customer care

Who can attend the training courses?

The PVTRIN training addresses to qualified electricians, who wish to activate in PV installation. The applicants are expected to be at least 20 years old, to have received training on DC systems, to hold license to practice in electrical installations of at least 10kW and to have gained relevant experience working for a PV installation company, electrical installation company or a roofing company.

More information about the entry requirements are provided by the National Contact Points.



How to become a PV Certified Installer

The PVTRIN training courses are currently offered in Greece, Bulgaria, Croatia, Cyprus, Romania and Spain in the national languages, by acknowledged training providers.

To achieve certification, the PVTRIN trainee has to prove the required knowledge and skills by successfully completing the PVTRIN exams (written and practical part). Once the required areas of competencies are fulfilled and the assessment requirements are met the installer is eligible for the PVTRIN Certification.

The certified installer is awarded by the “Photovoltaics Certified Installer” certification mark which they can display publicly to demonstrate their proficiency.

The PV investors recognize that the PVTRIN certified installers are committed to install PV systems that meet the performance and reliability needs of their customer by incorporating quality craftsmanship and complying with all applicable codes and standards.

The “Photovoltaics Certified Installers” are also listed to the PVTRIN website (www.pvtrin.eu)

The PVTRIN Certification offers:

To installers

- Proficiency
- Recognition
- Mobility
- Aspirations
- Employability

To PV investors

- Confidence
- Better system performance
- Reduced risks

To PV industry

- Efficient workforce
- Satisfied customers



PVTRIN

Contact Points

For further information, contact the PVTRIN Coordinator or the PVTRIN Contact Point in your country:



PVTRIN COORDINATOR
TECHNICAL UNIVERSITY OF CRETE (TUC)
Environmental Engineering Department
Renewable and Sustainable Energy Systems Laboratory

National Contact Points

- **BULGARIA:** Sofia Energy Centre, SEC
- **CROATIA:** Energy Institute Hrvoje Požar, EIHP
- **CYPRUS:** Scientific and Technical Chamber of Cyprus, ETEK
- **GREECE:** Technical University of Crete, TUC
- **ROMANIA:** Agency of Brasov for the Management of Energy and Environment, ABMEE
- **SPAIN:** Tecnalia Research and Innovation, TECNALIA



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