

Occupation Sector - Construction

Sub Sector - Installation & Maintenance

Name of the Occupation/ Job

Solar Photovoltaic System Technician / Installer

Occupation/ Job description

“Solar PV System Technician “/ Installer is a person who is involved in implementing solar PV systems. The occupation involves in systems which are mainly connected to the electricity grid. Solar PV technician installs solar power components such as solar PV modules, Solar Inverters, and other components such as switch gear to ensure the system is installed as per the local guidelines.

Duties of the Occupation/Job –

- Fabricate Solar Mounting Structures
- Estimate cable distances
- Installation of electrical cables
- Installation of conducting works
- Plan and install cable trays
- Installation of electrical switch gate
- Installation of solar panels
- Basic electrical testing
- Aligning of solar module arrays using leveling tools
- Basic solar module testing
- Installation of solar PV inverters
- Preparation of job completion reports
- Estimating tool and component requirement for small scale installations
- Involved in testing and commissioning of solar PV systems

Expected Income per Month

Rs. 25,000+ per month

Working Environment

This may take place at workshops and/or work sites (roofs)



Available Career Paths

Electrician/ Electrical Switch gear installer

Skills/Attributes and training needed

NVQ Level 3 & 4, One year work experience preferred

Employment Opportunities available areas

Government/Private/ Self

Entry Qualification for the Occupation/Job

Literacy, numeracy, physical fitness, Basic Skills example sketching ability

Available Training paths – NVQ Level 3 & 4

No. of Local Jobs Available (Last Year) - 2000 +

Regions or countries of job availability

Especially and industry crease western province sites and workshops. Middle East countries as per the demand.

On the Job Training (OJT) - Minimum 6 months

Available web links/YouTube/videos /Experts to Clarify Occupation/Job relevant issues

www.tvec.gov.lk, www.youthjobs.lk, YouTube videos on Solar Photovoltaic System Technician operate and maintain

For More Information – Industry institution, career awareness skills deployments officers, Industry experts

Standards / Levels

Installation and maintenance as per guidelines by Sustainable Energy Authority of Sri Lanka

- The British Standards Association (BS)

How to become Solar PV installer / Technician

By following a basic electrical course and completion of an apprenticeship in a reputed solar PV installations company / contractor.

NVQ through recognition of prior learning (RPL) - for those having experience in the field

