



## Solar Panel Installation & Servicing Training Details

<b>Course Code</b>	<b>: HCCC76</b>
<b>Course Name</b>	<b>: Solar Panel Installation &amp; Servicing</b>
<b>Duration</b>	<b>: 2 Months</b>
<b>Eligibility</b>	<b>: Diploma, BE, ME, EIE, EEE, ECE /+2 / Equivalent</b>

### Syllabus:

#### Basics of Electricity

- Voltage, Current, DC and AC Power, Measurement of Electrical Quantities.

#### Introduction to Solar Photovoltaic Energy

- Solar Radiation Energy, Estimating Energy
- Requirement Solar Photovoltaic conversion.

#### Solar Photovoltaic

- Solar Cell, Solar PV module, Solar PV Module
- Arrays.

#### Batteries

- Types of Batteries, Battery parameters, How to select Battery, Batteries for Photo voltaic System,
- Application of Batteries in Solar PV system.

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#### Address:

163 C/1, First Floor, Kamarajar Salai,  
NP TVS Showroom Opp., Ganesh Theatre Signal,  
Santha Pettai Bus Stop Near,  
Madurai – 625 009.



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**Charge Controller, MPPT and Inverter**

- AC to DC Converter, DC to AC Converter, DC to DC power converter, Charge controller, Maximum Power Point Tracking

**Solar PV System Design and Integration**

- Types of Solar PV System, Design methodology for SPV system., Wires & Cables, Mechanical structure Design

**Installing, Trouble Shooting and Safety**

- Installation and Trouble shooting of Standalone Solar PV System, Solar Street Light, Solar Lantern, Maintenance of Solar PV System, Safety in installation of Solar PV System, Electrical Audit.

**Project**

- Installation and Trouble shooting of 5KWp Solar Power Plant. Solar PV Plant Installation Check list

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