

COURSE PROSPECTUS

Name of the Group:	<i>PEG</i>
Name of the Course:	<i>Certificate course in Solar Power Installation Operation and Maintenance</i>
Course Code:	<i>SP100</i>
Starting Date:	<i>21/08/2019</i>
Duration:	<i>80 Hours spanned over 3 weeks</i>
Course Coordinator:	<i>C. MOHAN, 0495-2287268 / 2287266-241</i>

Preamble:

Given the growing demand for skilled professionals in solar power electricity generation, and the rapid changes in PV technology, there is an increasing demand for the skilled manpower in maintenance of Solar PV Power plant both in India and abroad. The course has been designed to meet this requirement. This job-oriented course is designed with a proper balance of theory with practice, so that students get enough hands on experience. The project work at the end of the course enables students to get an exposure to industrial standards

Objective of the Course:

This is a skill oriented course in the study of solar photovoltaic (PV) cells, modules, and system components; electrical circuits; PV system design and sizing for use on homes, commercial building etc., understanding energy conversion from sunlight to electricity, and working with solar conversion equipment. This Course will give students the book knowledge and hands on experience needed to become entrepreneur / self employed

Outcome of the Course:

This, 80 Hours spanned over 3 weeks, intensive training course has been specifically designed to address the requirements of Solar PV Module installer who want to become experts in Solar Power Electricity Generation. Participants will learn different types of solar PV module and batteries used in solar PV plant, design of solar PV Plant based on estimated loads etc.,

Course Structure:

<i>Title of unit or other component (including any identification code used)</i>	<i>Estimate size (learning hours)</i>
Understanding the Solar PV cells parameters	08
Selecting the solar PV system components	16
Solar PV System Design and Integration	16
Installing, Trouble Shooting and Safety	20
Project	20
TOTAL HOURS	80

Other Contents

a. Course Fees:

General Candidates: Course fee is **Rs. 8000/-** inclusive of GST 18%

SC/ST Candidates : Tuition Fees are waived for SC/ST students admitted under SCSP/TSP. However they are required to remit an amount of **Rs. 1000/- as Advance caution/security deposit** at the time of joining the course. This amount will be considered as caution/security deposit and will be refunded after successful completion of the course. If the student fails to complete the course successfully this amount along with any other caution/security deposited by the student will be forfeited.

Modular wise Course Fee: *Not Applicable for this course*

b. Registration Fee:

An amount of Rs.1000/- (including GST)(nonrefundable) should be paid at the time of registering for the course.

This fee shall be considered as part of course fee, if the student joins the course. If a student register and pay for more than one course and join for any one course, all such amount will be adjusted against the course fee payable.

If the student does not join for the registered course / any of the registered courses, fee paid shall be forfeited.

For SC/ST candidates, the registration fee is Rs.500/- and will be considered as part of caution/security deposit and will be refunded after successful completion of the course. If the candidate does not join or fails to complete the course the amount will be forfeited

However above the registration fee shall be refunded on few special cases as given below

- Course postponed and new date is not convenient for the student
- Course cancelled in advance, well before the admission date

- c. Course fee installment structure : ***NIL***
- d. Eligibility: ***ITI, 10+2, Diploma, Any Graduate***
- e. Number of Seats : **15**
- f. Selection of candidates : ***First come First Serve***
- g. Test/Interview (*if applicable*) : ***Not Applicable***
- h. Counseling/Admission : ***21/08/2019 and 18-11-2019***

Spot Admission : Unfilled/vacant seats are filled through spot admission. Spot admission (if open) will close within **3 days** of Counseling/Admission of a particular course. On spot admission students should provide an undertaking saying that he/she is fully aware that he/she missed so much days of class and will not ask for extra classes or further extension of course.

- i. Important Dates (if applicable) :

Course Starting date	21-08-2019
Last date to submit application form	13.08.2019
Selection intimation in website	14.08.2019
Counseling/Admission/spot admission	21.08.2019
Commencement of class work	21.08.2019
Payment of Fee	21.08.2019

- j. Course Timings : 9.00AM to 5.30PM
- k. Placement : Students can register with Model Carrier Centre
- l. Lab Facilities: Various measuring instruments, Solar Power Meter, Battery Capacity Tester, Multimeter, AC/DC Digital Clamp Meter, Digital Insulation tester, On Grid Solar Power Plant 10KW, Off Grid 300W solar power plant etc.,

m. Course Contents :

- Learn procedure of measurement of Electrical Quantities
- Follow procedure to measure Solar parameters
- Learn how to assemble Solar PV module
- Recognize different types of Batteries and their uses.
- Use of Solar charge controller (MPPT)
- Learn working principle of Inverter
- Design methodology for SPV system.
- Various tools use for Solar PV panel mounting
- Design of Mechanical structure for Solar PV
- Installation and Troubleshooting Solar PV System
- Installation and Troubleshooting Solar Street, Light and Solar Lantern
- Maintenance and Safety of Solar PV System, Electrical Audit.
- Preparation of Solar PV Plant Installation Check list
- Installation and Troubleshooting of 300Wp Solar Power Plant

[Click here for General Terms and Conditions – Applicable to all courses](#)