



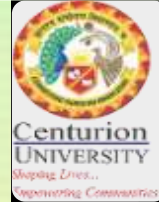
**CENTURION
UNIVERSITY**
*Shaping Lives...
Empowering Communities...*

SOLAR PV INSTALLER

Year:2019

This Solar PV Installer webinar was organized on the year of 2019 By Centurion University of Technology and Management

SOLAR PV INSTALLER



Date : 13/03/2019

**Centurion University of Technology and
Management**



Pre-requisites: Nil
 Course Type : Audit
 (Workshop)
 Duration : 30 Hours

Course Objectives:

- Familiarization to the principles, materials, and tools required for solar PV installation
- Develop an end-to-end technical understanding to execute solar PV Installation
- Understand the test and commissioning process of Solar PV system
- Complying to the industry specifications, guidelines and safety standards during work

Learning Outcomes:

- Assess customer's requirement of solar PV system for specific application
- Implement the knowledge of the basics of electricity, electronics and solar PV
- Concept about load calculation and installation of PV system
- Comply with the safety procedures and standards to be followed
- Prioritizing activities and organizing resources to meet desired outcome

Module	Contents	Duration
Module-1	<ul style="list-style-type: none"> • Work Organization and Management • Overview and applications in multiple sectors Work technical terminology and symbols theory and applications of mathematics, physics, and geometry, Standards currently used and recognized by industry, Current internationally recognized standards, Health and safety legislation and best practice including specific safety • Practice Site visit to acquire knowledge on Solar powered Projects. • Site Survey and Customer's requirement • Practice: Preparation of single line diagram (System layout) of the system • Practice: Identify the load to be connected to the Solar PV system 	10 hours
Module-2	<ul style="list-style-type: none"> • Basics of Electrical Electronics and Solar Energy • Practice Identify different Electrical components used in Solar Energy system • Practice Carry out operation of the electrical components • Practice Perform simple calculation of power, energy, radiation etc. • Basics of SPV System and Components • Practice Identify the different components of a SPV system components and its operation • Practice Carry out operation of the Solar PV system components 	10 hours
Module-3	<ul style="list-style-type: none"> • Design and Installation of SPV System • Practice Design and validation of SPV systems • Practice Design of Offgrid system • Practice Identify Tools & Tackles used for civil/mechanical/electrical installation • Practice Installation of Solar Module, CCR/Inverter, Battery and electrical appliances • Testing and Commissioning of SPV System • Practice: Hands on practice of test and commission process in a SPV system • Practice: Operation of each component of the SPV system • Practice: Demonstration of Regulations & Standards of interconnection • Maintenance of SPV System • Practice: Carry out maintenance activities required for each component • Practice: Activities of preventive & reactive maintenance of the plant 	10 hours
TOTAL		30 hours

Anita Patra



Dr. Anita Patra, Registrar, CUTM



[Handwritten Signature]

Convener



**A REPORT ON
NAME OF THE EVENT:
SOLAR PV INSTALLER
TOTAL NUMBER OF PARTICIPANTS: 41
ACADEMIC YEAR: 2018-19
DATE: 13.03.2019**

A photovoltaic system, also PV system or solar power system, is an electric power system designed to supply usable solar power by means of photovoltaics. It consists of an arrangement of several components, including solar panels to absorb and convert sunlight into electricity, a solar inverter to convert the output from direct to alternating current, as well as mounting, cabling, and other electrical accessories to set up a working system. In the present day and age, with the rapid advent of solar cells for electricity generation, already all the major countries of the world are heavily investing in this technology. India too is rapidly increasing its solar electricity generating capacity. Hence it is important for the students to be aware of this technology.



Virtual Demonstration on Solar PV Installation on 13-03-2019

The primary objective of the programme was to familiarize the participants with the principles, materials, and tools required for solar PV installation and to develop an end-to-end technical understanding to execute solar PV Installation. Furthermore, understanding the test and commissioning process of the Solar PV system and complying to the industry specifications, guidelines and safety standards during work were also focused in the programme.

At the end of the programme, the participants could assess the customer's requirement of solar PV system for specific application and implement the knowledge of the basics of electricity, electronics and solar PV. Further, the concept of load calculation and installation of PV systems was explained and discussed minutely. The participants were also made to learn how to comply with the safety procedures and standards to be followed and prioritize activities and organize resources to meet desired outcomes.

The program was primarily focused on the following learning outcomes.

- Work Organization and Management
- Basics of Electrical, Electronics and Solar Energy
- Design and Installation of SPV System

Anita Patra



Dr. Anita Patra, Registrar, CUTM

D. Shri.



Convener



List of Participants:

Name of Event: SOLAR PV INSTALLER

Organized by: Centurion University of Technology and Management

Date: 13 March 2019

This Solar PV Installer webinar was organized in the year of 2019 By Centurion University of Technology and Management

List of Participants:

S. No.	Name	Reg. No.	Present/Absent
1	Y.TEJAKIRAN	190101130003	Present
2	M.INDUMATI	190101130002	Present
3	CH.CHANDU	190101130001	Present
4	POLAKI DEVUBABU	190101130005	Present
5	BIKASH KUMAR NAYAK	190101130007	Present
6	KYAW ZAVYU AUNG	190101130009	Present
7	ANEM SAI KRISHNA	190101130011	Present
8	KANHAIYA KUMAR	190101130013	Present
9	DAKARA PAVAN KUMAR	190101130010	Present
10	SADIQUE RAJA ANSARI	190101130014	Present
11	RAHUL RAJ SHRIVASTAVA	190101130015	Present
12	SHANTANU KUMAR	190101130021	Present
13	DENG MARIAL GARANG LUAL	190101130022	Absent
14	VIJAY KUMAR MAHTO	180301130002	Present
15	ANAND KUMAR TIWARI	180301130003	Present
16	MANGALDEEP CHAKRABORTY	180301130004	Present
17	SUBHANGI PATRO	180301130005	Present
18	RAHUL KUMAR	180301131010	Present
19	DEBASHIS MAHANTY	190301130001	Present
20	DEEPAK KUMAR SINGH	190301130002	Present
21	BINIT KUMAR RAM	190301130005	Present
22	M.KISAN KUMAR	190301130006	Present
23	MD TABISH	190301130007	Present
24	P.VENKATA RAJYA PAVAN SHARMA	190101130004	Present
25	M.TARAKESWAR	190101130006	Present
26	M.MEGHANA	190101130008	Present
27	KAML NAYAN	190101130023	Present
28	ALOK KIRAN PANIGRAHY	180301130001	Present
29	SUBHASH KUMAR	190101130012	Present
30	RAVI KUMAR	190101130017	Present
31	JITESH KUMAR	190101130019	Present

32	KAUSHLENDRA KUMAR	190101130018	Present
33	AMIT CHAUDHARY	190101130020	Present
34	SANDEEP PRADHAN	180301130006	Present
35	SATYABRATA DASH	180301130007	Absent
36	NILESH KUMAR	180301130008	Present
37	SAUBHAGYA MALLICK	180301130009	Present
38	MD AZAM ANSARI	190301130003	Present
39	ASHISH KUMAR	190301130004	Present
40	HARSH B DHAWALIA	190301130008	Present
41	GOURI SANKAR JENA	190301130009	Absent

Anita Patra



Dr. Anita Patra, Registrar, CUTM

Dr. Shri...



Convener