



Solar Lighting Technician

Year:2019-20

Event Description:

This Solar Lighting Technician webinar was organized on the year of 2019-20 By Centurion University of Technology and Management.

Solar Lighting Technician



Year : 2019-20

Centurion University of Technology and Management



Course Objectives:

- Familiarization to the principles, materials, and tools required for solar lighting system.
- Develop an end-to-end technical understanding to execute solar lighting system.

Learning Outcomes:

- Assembly of different types of solar lamps
- Repair of solar lamps
- Assembly and repair of solar home lighting system
- Assembly and Repair of solar street lights

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

Module	Contents	Duration
Module1	Work Organization and Management <ul style="list-style-type: none"> • 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- Demonstration of Solar powered home /street lights projects 	10 hours
Module2	Practice: Preparation of Solar home /street lights system layout <ul style="list-style-type: none"> • Practice- Identify and specify the different Electrical components used in Solar Home /Street lights system and carry out it's operation • Practice- Perform simple calculation of power, energy, radiation etc. • Practice- Measurement of solar radiation in different geographical area 	10 hours
Module3	Practice Identify the different components used in a Solar PV lighting system <ul style="list-style-type: none"> • Practice- Carry out operation of the Solar PV lighting system components • Practice- Identify the different components used in a Solar PV street lights system • Practice- Carry out operation of the Solar PV Street lights system components • Practice- Design and validation of solar home lighting and street lights systems 	10 hours
TOTAL		30 hours

Anita Patra



Dr. Anita Patra, Registrar, CUTM

D. Shri.



Convener



Report on Solar Lighting Technician

Total number of participants: 42

Academic year: 2018-19

Date:28.10.2019

The aim of the program was to make the participants familiarize themselves with the principles, materials, and tools required for the solar lighting system. Furthermore, the participants were trained to develop an end- to-end technical understanding to execute solar lighting systems and assembly of different types of solar lamps. The participants also were offered the opportunity to repair solar lamps and solar home lighting systems including solar street lights.

The participants got an 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.

The sessions were based on practice modes. A few examples follow

- Demonstration of Solar powered home/street lights projects
- Preparation of Solar home/street lights system layout
- Perform simple calculation of power, energy, radiation etc.
- Measurement of solar radiation in different geographical area

Objectives: -

- Familiarisation to the principles, materials, and tools required for solar lighting

system.

- Develop an end-to-end technical understanding to execute solar lighting system.
- Concept about load calculation and installation of PV system.
- Complying to the industry specifications, guidelines and safety standards during work.



Hands on training during the Programme on 28.10.2019

Learning Outcomes:

- Assembly of different types of solar lamps
- Repair of solar lamps
- Assembly and repair of solar home lighting system
- Assembly and Repair of solar street lights

The following points were discussed in the course of the program:

1. Work Organization and Management
2. Site survey and requirement
3. Basic electrical concepts and introduction to solar energy
4. Solar PV lighting system and its components
5. Solar PV Street light system and its components
6. Family and installation of solar home and street light systems
7. Testing and commissioning of solar PV homes and solar streetlights systems
8. Repair and maintenance of solar PV homes in solar Street light systems

Anita Patra 

Dr. Anita Patra, Registrar, CUTM

 

Convener



List of participants Solar Lighting Technician

Organized by: Centurion University of Technology and Management

Date: 28 October 2019

Event Description:

This Solar Lighting Technician webinar was organized in the year of 2018-19 By Centurion University of Technology and Management.

List of Participants:

S.No.	Name	Reg. No.	Presence/Absent
1	Y.TEJAKIRAN	190101130003	P
2	M.INDUMATI	190101130002	P
3	CH.CHANDU	190101130001	P
4	POLAKI DEVUBABU	190101130005	P
5	P.VENKATA RAJYA PAVAN SHARMA	190101130004	P
6	M.TARAKESWAR	190101130006	P
7	M.MEGHANA	190101130008	P
8	BIKASH KUMAR NAYAK	190101130007	P
9	KYAW ZAVYU AUNG	190101130009	A
10	ANEM SAI KRISHNA	190101130011	P
11	SUBHASH KUMAR	190101130012	P
12	KANHAIYA KUMAR	190101130013	P
13	DAKARA PAVAN KUMAR	190101130010	P
14	SADIQUE RAJA ANSARI	190101130014	P
15	RAHUL RAJ SHRIVASTAVA	190101130015	P
16	RAVI KUMAR	190101130017	P
17	JITESH KUMAR	190101130019	P
18	KAUSHLENDRA KUMAR	190101130018	P
19	AMIT CHAUDHARY	190101130020	P
20	SHANTANU KUMAR	190101130021	P
21	DENG MARIAL GARANG LUAL	190101130022	P
22	KAML NAYAN	190101130023	P
23	ALOK KIRAN PANIGRAHY	180301130001	P
24	VIJAY KUMAR MAHTO	180301130002	P
25	ANAND KUMAR TIWARI	180301130003	P
26	MANGALDEEP CHAKRABORTY	180301130004	P
27	SUBHANGI PATRO	180301130005	P

28	SANDEEP PRADHAN	180301130006	P
29	SATYABRATA DASH	180301130007	A
30	NILESH KUMAR	180301130008	P
31	SAUBHAGYA MALLICK	180301130009	P
32	RAHUL KUMAR	180301131010	P
33	DEBASHIS MAHANTY	190301130001	P
34	DEEPAK KUMAR SINGH	190301130002	P
35	MD AZAM ANSARI	190301130003	P
36	ASHISH KUMAR	190301130004	P
37	BINIT KUMAR RAM	190301130005	P
38	M.KISAN KUMAR	190301130006	P
39	MD TABISH	190301130007	P
40	HARSH B DHAWALIA	190301130008	P
41	GOURI SANKAR JENA	190301130009	P
42	SAMPRITA JENA	190301130010	P

Anita Patra



Dr. Anita Patra, Registrar, CUTM

D. Shri.



Convener