



Two day

Technician Training Program on Solar Photovoltaic Systems

Introduction

The Government of Kerala in the year 1988 established Centre for Development of Imaging Technology (C-DIT) with a vision to ensure advancement of research, development and training in imaging technology with an implied role in socially relevant science & development communication.

Background

The Government of Kerala has started the utilisation of renewable energy sources through structured approach. It is clear that the utilisation of solar energy can play a vital role to manage the crisis of energy in the state. The mission of our state is to increase the installed capacity of the solar sector in the state to 500 MW by 2017 and 1500 MW by 2030. This mission generates large direct and indirect employment opportunities in the areas of solar and allied industries. In order to enable the deployment of solar PV systems in the state, there is a need for large number of trained people in the solar PV area. Creation of skilled and semi-skilled man power resources for installation and maintenance of the solar systems can be done through the promotion of technical and other related training. The trained manpower is required at various levels. This program aims at training people who install or planning to install solar PV systems in future.

Who May Benefit

The course would benefit anybody who wants to work with solar PV system, particularly technician, trainers and engineers (or any PV system practitioner) who is working on solar PV system for design, installation and maintenance of solar PV systems of all types. The training programme would also be an excellent opportunity to learn several aspects of Solar PV technology with hands on experience in designing and assembling solar PV systems.

Course Content

The following topics will be covered in the course:

1. Energy Scenario
2. Basics of electricity and related concepts
3. Introduction to Solar PV Technology <i>Concepts of solar cells, Interconnection of solar cells in PV modules, Parameters of PV module, Design of PV array, Effect of Light Intensity & Temperature in PV performance, Balance of System: Charge Controllers & Inverters</i>
4. Practical Session on: <i>Familiarization of different types of PV modules, PV module parameter measurement, Connecting Modules to form arrays: Series, parallel connections and its effect on parameters VOC & ISC, Operating DC appliances directly from PV</i>

5. Energy Storage devices: <i>Batteries – Charging, Discharging rates, DOD, Terminal Voltage, Life Cycle, different types of batteries for solar PV systems, Maintenance & precaution</i>
6. Design of Customized standalone Solar PV Solutions
7. Practical Session on: <ul style="list-style-type: none"> • <i>Load assessment & Design of off-grid SPV Solution</i> • <i>Setting up an off-grid Solar PV package for DC loads</i> • <i>Setting up a 1.5 KW standalone Solar PV system</i> • <i>Setting up a Solar Street Lighting System</i>

Eligibility

Individuals having ITI or diploma in the relevant field or individuals having electrical/electronic background can attend the training program.

Venue

CDIT- MAIN CAMPUS,
Chithranjali Hills, Thiruvallom, Thiruvananthapuram 695027

Registration Details

Only limited number of seats are available for the course. Participants are required to send their applications online as soon as possible as the selection will be on first come first served basis.

Fee

Category	Amount per participant	Duration of Course
Industry/ Individual	Rs. 3371.00	2 Days

Fee inclusive of Service Tax @12.36%

Fee includes course material, lunch and refreshments.

**Demand draft should be drawn in favour of "Registrar, C-DIT" payable at Thiruvananthapuram*

Print out of online Application along with DD to be sent to the following address:

Registrar,
Centre for Development of Imaging Technology (C-DIT)
Chitranjali Hill, Thiruvallom P.O.
Thiruvananthapuram 695027

No TA/DA or accommodation facility will be provided

Contact Details

Email: greentech.cdit@gmail.com
Contact No: 0471-2380910, 9895788233, 9895788226
www.greentech.cdit.org

Sd/-

REGISTRAR