

About CRISP

CRISP is established under Indo-German Cooperation agreement as an autonomous organisation of the Dept. of Technical Education and Skill Development, Govt. of M.P.

CRISP provides technical training and consultancy services for Industry Personnel, Government Officers, Faculties of academic and teaching institutions, Students and Jobseekers. CRISP is equipped with the state-of-the-art equipment and technology, latest software, qualified, trained and experienced trainers in the relevant fields.

CRISP has its head office in Bhopal and training centres at several national and international locations.

Other training programmes in Electrical and Electronics offered at CRISP are :

- Embedded System Design
- Electronics Maintenance
- WinCC SCADA
- Industrial Automation
- PLC Programming & Application
- PLC Networking
- Electrical Control and Relay Logic Application
- AC/DC Drive
- MMI
- MATLAB
- Fiber Optic Networking



Patron Clients of CRISP



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(Established under Indo-German Technical Co-operation)

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Solar PV System Maintenance



...unleashing the full potential of men & machines

Solar PV System Maintenance



Introduction of Course

In the present scenario, where energy is one can see a drastic shift happening from non renewable energy to renewable energy; at the same time, the favorable Government policies and reduction in prices of solar PV modules in the last couple of years, by and large, has given a boost to this sector, creating a huge interest for installation of solar PV systems.

The rapid growth expected in this sector all over the world, would require an extensive pool of competent manpower (knowledgeable and skilled) in the solar PV area at various levels and disciplines, ranging from managers and researchers to engineers and technician, expected to perform installation, testing, operation and maintenance of the RE system. In India, the Ministry of New and Renewable Energy (MNRE), Government of India, has estimated the requirement of 100,000 trained manpower in the Renewable energy sector who would be responsible for enabling the deployment of solar PV systems in India itself.

Against this background, CRISP has proactively initiated a Training programme for Technicians in "Solar PV System Maintenance" the objective of which is to create a pool' of trained manpower for maintenance and effective functioning *bf* the installed solar panels.

The program will also cover safety aspects and best field practices in solar PV power plants. The participants will gain hands-on laboratory experience in test and measurement of components and system parameters. They will also get the benefit of field assembly, testing and monitoring

Course Contents

- Introduction to Renewable energy and Photovoltaic (PV).
- Solar Radiation Basics and Measurement.
- Solar Cells, Modules and Arrays.
- Basics of Electricity

- Inverter, Rectifier
- Battery, Charge Controller and Inverter
- Balance of Systems Components
- Plant Safety, Tools and Assembly
- Plant Operation and Maintenance
- Solar Radiation Measurement
- Measurement of PV module parameters
- Series and Parallel connections of modules
- Measurement of Battery, Charge Controller and Inverter parameters
- Testing of Standalone PV system

Methodology

The programme consists of a mix of :

- Lectures & presentations
- Demonstrations
- Interactive discussions
- Hands-on practice

Pre-requisite

- Industry personnel with relevant experience.
- 12th Passout students/ ITI in Electrician/ Electronics/ Instrumentation Mechanic

Duration

Full time: 5 working days (7 hours/day)

Part time: Three weeks (15 working days, 2 hours/day)

Course Fee

Kindly refer to our training calendar at www.crispindia.com or can be obtained from CRISP counselling desk

Mode of Payment

Cash / Online/ Debit/ Credit Card