

SOLAR PV MASTERY ONLINE COURSE

Contact Hours: 58

Ecotech Training's Solar PV Mastery Online Course begins with the 20-hour Entry Level Photovoltaic online class that thoroughly covers the topics outlined in the NABCEP Photovoltaic Entry Level Learning Objectives. After finishing the entry level PV online class, you will continue with the 40-hour Advanced Solar Photovoltaic Online class that covers a wide range of topics, including current industry standards for photovoltaic system design and installation best practices. You will learn how to integrate solar PV modules, design installations and components, and how to properly tie a system to the grid.



Ecotech Training's Solar PV Mastery Course also prepares participants for the NABCEP PV Installer Certification exam. You can enter this course as an absolute beginner, and you will leave with the advanced knowledge needed to stand out as an experienced and qualified photovoltaic installer, project manager, or system design engineer.

This course is ideal for individuals new to Solar who would like the most thorough Solar PV installation education available.

Solar PV Mastery Online Course Subjects & Topics

Solar Photovoltaic Systems

- Types of systems; advantages and disadvantages
- System components & configurations
- Backup system types & integration
- Grid-interactive system inverters, features, functions, & specifications
- Calculations (with & without backup components)
- Safety issues, procedures, & OSHA regulations
- Site survey and analysis

Solar Photovoltaic Design

- System design drawings
- Feasibility reports
- System mechanical and electrical specification calculations
- Residential load demands

- Supporting documents for utility companies and other regulatory agencies to approve grid inter-connection
- Documents required for bids & building department reviews
- Construction administration as related to solar energy system installation
- Mounting systems used in residential installations
- Design documents utilizing more than one mounting methodology
- NEC and firefighter safety requirements related to residential photovoltaic systems
- Documentation required by OSHA regulations regarding solar photovoltaic system installations

Solar PV Mastery Online Course Schedule

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
PV Safety	System Design Drawings	Documents for Approval of Grid Inter-Connection	Residential Load Demands System Requirement Calculations	Mounting Systems	Safety Requirements Review & Documentation
Electricity and Solar Fund.	Feasibility Reports				
PV Modules and Systems	Mechanical & Electrical Specification	Documents Required for Bids and Building Department Review	Relevant Construction Administration	Utilizing Multiple Mounting Technologies	System Install Regulations
Design and Analysis	Create Design Documents				