

## ENTRY LEVEL SOLAR PV TRAINING - ONLINE

Credit Hours: 18

Ecotech Training’s Solar Photovoltaic Entry Level Online Course thoroughly covers the topics outlined in the NABCEP Photovoltaic Entry Level Learning Objectives and provides all 18 hours of training needed to be eligible to sit for the NABCEP Entry Level exam. Our 20 hour online course is designed to introduce solar energy in both theory and application and to immerse students in the key concepts of solar PV design, installation and safety. Participants will learn the essentials of a comprehensive solar installation, including the electrical components, system sizing and the mechanical and electrical design of arrays.



As the solar industry continues to grow, a steadily growing supply of qualified installers will be needed to support the build-out. This solar training course was designed to NABCEP’s Job Task Analysis.

This course is ideal for roofers, electricians, contractors, architects and builders who aspire to become professionals in solar PV installation.

### Entry Level Solar Photovoltaic Training Subjects & Topics

#### Introduction to Solar Photovoltaic

- Background & development
- Definitions and abbreviations
- Choosing the appropriate system
- Solar PV industry and career opportunities
- Solar PV system types, usages, advantages and disadvantages
- NABCEP certification exam

#### Solar Photovoltaic Sales

- Product knowledge
- Identifying clients’ needs
- Effective sales techniques

#### Installation

- Installation fundamentals, facts, and techniques
- Construction process
- Load requirements, wiring, commissioning, and troubleshooting.
- Operations & maintenance
- Protective equipment, safety procedures

#### Solar Photovoltaic Design

- Solar PV design and components sizing.
- Site survey, proper equipment, rack & module type
- Software, calculations, referential technology & compliance with local jurisdiction

### Entry Level Solar Photovoltaic Training Schedule

Module 1	Module 2	Module 3	Module 4	Module 5
Fundamentals	Design	Design	Installation	Installation
Markets and Applications	Solar Energy Fundamentals	Module Fundamentals & Sun Path	Grid-Tie System Sizing & Site Analysis	System Design, Sales & Permitting
Break	Break	Break	Break	Break
Electricity Basics	Racking Systems & Off Grid Systems	System Components	System Electrical Design & Internet Tools Overview	Performance Analysis, Maintenance & Troubleshooting