



Certificate in Solar Electric Systems (SES)

Program Overview

The purpose of the Certificate in Solar Electric Systems program is to prepare students for the NABCEP PV Entry Level Exam. This program is open to anyone who wishes to enter the renewable energy field. Upon completion of this course students will be able to demonstrate knowledge and application of key solar electric system terms and concepts. Students will learn how to develop a design that optimizes the economic and energy opportunities of a given site.

Understanding the relationship of solar PV and the existing electrical infrastructure requires an emphasis on electrical technology. Given an understanding of how systems work, the student will develop the ability to communicate to electricians who are NABCEP certified to do the installations. Have an understanding of the basic safety procedures for working with solar electric systems, Students will also have knowledge of basic components that makeup up a solar system, and learn how to size and design a simple photovoltaic system.

Certificate Requirements

Fundamentals of Solar Electrical Systems SES-1	Math Concepts and Electrical Fundamentals Solar Energy and System Concepts Introduction to Photovoltaic Systems
Solar Electrical Installation and Troubleshooting SES-2	System Design and Performance Values Site Assessment and System Installation Performing System Checkout and Inspection