

# ALTERNATIVE ENERGY - SOLAR TECHNOLOGY

## DEGREES, CERTIFICATES AND AWARDS

Certificate of Achievement

### DESCRIPTION

The Alternative Energy-Solar Technology Certificate program is intended to provide an opportunity for students interested in an alternative energy career. This certificate will provide students with the comprehensive understanding, manipulative skills, technical knowledge and related trade information required to prepare them for the nationally recognized Solar NABCEP PV and SH Entry Level Exams. This certificate program will enhance the students' employment opportunities in the growing and rewarding fields of solar systems installation, operation, and maintenance technology.



### PROGRAM LEARNING OUTCOMES

1. Identify and describe the principles of photovoltaic (solar).
2. Describe and explain the National Electrical Codes for solar electrical circuits.
3. Identify the principles of electrical alternative energy system.

### CERTIFICATE OF ACHIEVEMENT PROGRAM

The **Certificate of Achievement** program is designed for students with personal or occupational goals who wish early employment. To qualify for the Certificate, a student must satisfy the following requirements: (1) complete all courses listed for a particular certificate.; (2) achieve a "C" average (2.0 GPA) for all courses used to complete the certificate; and, (3) file a Certificate Application form with Admissions and Records by the appropriate deadline(s) identified on the application.

### FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: [www.imperial.edu/students/financial-aid-and-scholarships/](http://www.imperial.edu/students/financial-aid-and-scholarships/)

### CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Electrical Installer
- Commercial Electrical Installer
- Electrical Maintenance Technician
- Electrician
- Industrial Maintenance Electrician
- Environmental Engineer
- Solar Engineer
- Electrical Engineer
- Environmental Scientist
- Environmental Engineer

**Gainful Employment:** Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at IVC. Please click on our Programs of Study link to view the information for each certificate program: <http://www.imperial.edu/courses-and-programs/programs-of-study/>

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## CERTIFICATE PROGRAM

### ALTERNATIVE ENERGY-SOLAR TECHNOLOGY

Twenty-two (22.0) units required for the certificate.

ALL COURSES FOR THIS CERTIFICATE MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

#### I. Required courses for the certificate.

BLDC	101	Safety Standards (Cal/OSHA) 30-Hour Card	3.0
EWIR	110	Electrical Principles	4.0
RNEW	118	Alternative Energies	4.0
RNEW	150	Solar Energy Systems PV1	3.0
RNEW	151	Solar Electrical Systems PV2	3.0
RNEW	152	Solar Heating (SH)	3.0
WE	201	Employment Readiness	1.0
WE	220	Internship	1.0

**Total Certificate Units**

**22.0**