IMPERIAL COMMUNITY COLLEGE DISTRICT

REVIEW OF CAREER TECHNICAL EDUCATION TRAINING PROGRAMS
2016

ALTERNATIVE ENERGY – SOLAR TECHNOLOGY

I. Program 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.

A. Degree

None.

B. Certificate

Certificated of Achievement, Alternative Energy – Solar Technology

II. Career Opportunities

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

III. Industry Certification/Accreditation

Solar program is certified by tye North American Board of Certified Energy Practitioners (NABCEP).

IV. Industry Recognized Credentials (IRC)

Students are eligible to tale exams for NABCEP certifications in solar technology.

V. Labor Market Demand

The Alternative Energy-Solar Technology program at Imperial Valley College meets a documented labor market demand. Employment trends for this field are derived from a variety of sources. These are listed below:

A. Employment Trends

Occupation	TOP Code	SOC Code	2012	Average Job Openings per Year
Energy Systems Technology	0946.10			Not listed

*State Employment Development
Occupational Employment Projections 20012-2022
Imperial County
http://www.labormarketinfo.edd.ca.gov/CommColleges/

B. Employment Trends Assessment

VI. Other Regional Programs

There are no other similar training programs in Imperial Valley.

VII. Employment and Completion

(Based on State Core Measures Report, 2012-2013, 2013-2014 & 2014-2015)

Core 2: Completions. Measures completions for Career Technical Education student concentrators. Receipt of a certificate or degree or enrollment in a California four-year public university with or without a degree is considered a completion.

Fiscal Year Planning	Program	Total Completions	IVC Completion Rate	State Avg. Completion Rate
2014-2015				
2013-2014				
2012-2013				

PERKINS IV Program Performance Trend Report
Core Indicator Two – Total Completions – Certifications, Degrees and Transfer
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_coreIndi_TOPCode.aspx

Core 3: Persistence and Transfer. The percent of Career Technical Education student concentrators (students who have successfully completed a minimum of 12 units of related Career Technical Education coursework) who persist in education at the community college level or transfer to a two or four-year institution.

Fiscal Year Planning	Program	Persistence	IVC Resistance Rate	State Avg. Completion Rate
2014-2015				
2013-2014				
2012-2013				

PERKINS IV Program Performance Trend Report
Core Indicator Three – Persistence and Transfer
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_coreIndi_TOPCode.aspx

Core 4: Student Placement. The percent of Career Technical Education students who have earnings the following year (as found in the unemployment insurance base wage file) or are in an apprenticeship program, or the military.

Fiscal Year Planning	Program	Placements	IVC Placement Rate	State Avg. Completion Rate
2014-2015				
2013-2014				
2012-2013				

PERKINS IV Program Performance Trend Report
Core Indicator Four – Employment
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_coreIndi_TOPCode.aspx

Pursuant to the FCMAT report, CTE programs are also being evaluated for student demand, certificate and program completion, local labor demand, and a facility utilization for CTE programs in the new CTE building.

VIII. Enrollment Trends

Course	Year	Sections	Avg. Class	Fill Rate
RNEW150	2014-2015			
RNEW150	2013-2014			
EWIR150	2012-2013	2	15.5	77.50%

Course	Year	Sections	Avg. Class	Fill Rate
RNEW151	2014-2015			
RNEW151	2013-2014			
EWIR151	2012-2013	1	14	46.67%

Course	Year	Sections	Avg. Class	Fill Rate
RNEW160	2014-2015			
RNEW160	2013-2014			
EWIR160	2012-2013	2	13.5	45%

IX. Completions

	2014-2015		2013-2014		2012-2013	
	Degrees	Certificates	Degrees	Certificates	Degrees	Certificates
Electrical Technology: Solar Energy Specialization	0	0	0	0	0	0

X. FTES/FTEF Analysis

Year	FTES	FTEF	FTES/FTEF
2014-2015			
2013-2014			
2012-2013			

XI. Facility Utilization Plan

XII. SWOT Analysis

Strengths	Weaknesses
Opportunities	**Threats**

XIII. Program Evaluation

The program has lacked focus by not having a FT faculty to take focus and control of the program. A new FT faculty position was authorized for 15-16. Courses this year have better enrollment numbers and the program seems to be rebounding. New technical equipment will also enhance the learning environment for students.

XIV. Recommendations

It is recommended that the Alternative Energy – Solar Technology program continue with a closer scrutiny and expectations over enrollment, completers, and fill rates.