IMPERIAL VALLEY COLLEGE DISTRICT
REVIEW OF CAREER TECHNICAL EDUCATION TRAINING PROGRAMS
2013

ENERGY EFFICIENCY TECHNOLOGY

I. Program Description

The Energy Efficiency Technology Associate in Science Degree and Certificate are designed to provide instruction in manipulative skills, technical knowledge, and technical information from the Building Performance Institute, which will prepare the student for employment in energy efficiency, home performance and energy auditing with emphasis in green building retrofits, The course work for the associate degree also emphasizes subject areas that are significant to the construction worker such as building sciences, environmental sciences, and the development of analytical and communication skills through the general education requirements.

A. Degree
Associate in Science, Energy Efficiency Technology

A. Certificate
Certificated of Achievement, Energy Efficiency Technology

II. Career Opportunities

First-Line Sup/Mgrs of Construction Trades and Extraction Workers

III. Industry Certification/Accreditation (to be completed by faculty)

Building Performance Institute: Building Analyst and Envolope Professional

IV. Industry Recognized Credentials (IRC) (to be completed by faculty)

B.P.I.

V. Labor Market Demand

The Energy Efficiency 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 (Employment Development Department):

Occupation	TOP Code	SOC Code	2008	Average Job Openings per Year
First-Line Sup/Mgrs of Construction Trades and Extraction Workers	0952.00	471011	160	4*

*Same data as 2012. No updates from State Employment Development
Occupational Employment Projections 2008-2018
Imperial County
http://www.labormarketinfo.edd.ca.gov/CommColleges/

B. Employment Trends (Faculty Assessment):

The employment trends for this program seems low because it is directly related to construction and the state has not used a separate employment tile for this occupation so it falls under the umbrella of construction just like solar falls under the umbrella of electrical. So it is safe to say that the construction trades workers are also part of the labor force for energy efficiency because when homes are retrofitted various trades are used. There is a 9.5% annual average employment for

maintenance and repair workers. Construction trades workers have a 4.8% change. Cement masons and concrete finishers have a 6.3% percent change.
Construction laborers have 8.5% percent change.

VI. Other Regional Programs

There are no other similar training programs in Imperial Valley.

VII. Employment and Completion

(Based on State Core Measures Report, 2011-2012, 2012-2013 & 2013-2014)

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
2013-2014	Construction Crafts Technology	29/29	100%	71.34%
2012-2013	Construction Crafts Technology	0	0	58.83%
2011-2012	Construction Crafts Technology	Not listed	Not listed	Not listed

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 Persistence Rate	State Avg. Persistence Rate
2013-2014	Construction Crafts Technology	17/28	60.71%	77.72%
2012-2013	Construction Crafts Technology	1/1	100%	80.23%
2011-2012	Construction Crafts Technology	Not listed	Not listed	Not listed

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. Placement Rate
2013-2014	Construction Crafts Technology	29/29	100%	69.20%
2012-2013	Construction Crafts Technology	0	0	69.28%
2011-2012	Construction Crafts Technology	Not listed	Not listed	Not listed

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	CAP	Fill Rate
BLDC101	2012-2013	3	20	22	92.31%
BLDC101	2011-2012	3	17.6	19	91.38%
BLDC101	2010-2011	2	16.5	18	91.67%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
BLDC110	2012-2013				
BLDC110	2011-2012	3	14.6	19	78.57%
BLDC110	2010-2011	1	8	18	44.44%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
BLDC115	2012-2013	1	19	25	76%
BLDC115	2011-2012	2	13.5	18	75%
BLDC115	2010-2011	2	21.5	17	126.47%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
BLDC155	2012-2013	1	20	25	80%
BLDC155	2011-2012				
BLDC155	2010-2011	1	29	16	181.25

Course	Year	Sections	Avg. Class	CAP	Fill Rate
BLDC170	2012-2013	1	19	25	76%
BLDC170	2011-2012	1	18	20	90%
BLDC170	2010-2011	1	10	18	55.56%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
BLDC175	2012-2013	1	19	25	76%
BLDC175	2011-2012				
BLDC175	2010-2011	1	29	16	181%

IX. Completions

	2012-2013		2011-2012		2010-2011	
	Degrees	Certificates	Degrees	Certificates	Degrees	Certificates
Energy Efficiency Technology	0	16	0	16	0	28

X. FTES/FTEF Analysis

Year	FTES	FTEF	FTES/FTEF
2012-2013	73.24	7.33	9.99
2011-2012	63.6	8.47	7.51
2010-2011	n/a	n/a	n/a

XI. Facility Utilization Plan (to be completed by faculty)

The new facility for building construction trades and plumbing can easily house this program in order for this program to offer day and evening courses.

XII. SWOT Analysis (to be completed by faculty)

Strengths The main strength of this program is the emerging technologies and state regulations that mandate new buildings to comply with new measures of energy efficiency. Another strength has been the acquisition of multiple grants via this program.	***Weaknesses*** The main weakness is that this program was created from a grant and it has always been a stand-alone program which has no full time or adjunct instructors assigned to this program.
Opportunities As resources become more scarce this program will gain more importance and momentum as it will become more attractive to existing construction workers to learn the state regulations and updated their skills.	***Threats*** One threat of this program is its elimination due to the lack of continuance and employment date because there is no instructor to help in the development of this program.

XIII. Program Evaluation (to be completed by EWD office)

XIV. Recommendation (to be completed by EWD office)