

IMPERIAL COMMUNITY COLLEGE DISTRICT
REVIEW OF CAREER TECHNICAL EDUCATION TRAINING PROGRAMS
2016

ELECTRICAL TECHNOLOGY

I. Program Description

The Electrical Technology major and certificate is designed to provide students with the comprehensive understanding and manipulative skills, technical knowledge, and related trade information required to become technicians or operators in Industrial technology and energy related industries or light manufacturing equipment. This program will allow students to comply with the necessary requirements for certification up to Grade I level. Once the student becomes a state certified operator, he or she will qualify to seek employment in the industrial technology disciplines anywhere in the state.

A. Degree

Associate in Science, Electrical Technology

B. Certificate

Certificated of Achievement, Electrical Technology

II. Career Opportunities

Electricians

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

Helpers-Electricians

Commercial Electrical Installer

III. Industry Certification/Accreditation

The Electrical Technology program is currently approved by the Department of Apprenticeship Standards (DAS) as a “partial” program which grants which recognize the courses as fulfilling the partial training requirements towards State electrician certification. With relocation to the new CTE facility and the hiring of a new FT faculty, the program is in a position to solicit full program certification which will further expand the opportunities for students.

IV. Industry Recognized Credentials (IRC)

The program will be soliciting approval from the National Center for Construction Education and Research (NCCER) to test the students and award NCCER credentials to successful students.

V. Labor Market Demand

The Electrical 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
Electronics and Electric Technology	0934.00			Not listed
Electricians	0952.20	472111	210	9
First-Line Supervisors/Managers of Construction Trades and Extraction Workers	0952.20	471011	160	6
Helpers-Electricians	0952.20	473013		Not listed
Total	15*			

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

B. Employment Trends Assessment

The Water Treatment Systems 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:

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	Electronics and Electric Technology	2/7	100%	82.28%
	Electrical	1/15	6.67%	54.66%
2013-2014	Electronics and Electric Technology	0/7	0	71.74%
	Electrical	2/8	25%	49.30%
2012-2013	Electronics and Electric Technology	6/10	60%	80.12%
	Electrical	2/6	33.33%	43.99%

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
2014-2015	Electronics and Electric Technology	11/17	64.71%	85.27%
	Electrical	16/33%	48.48%	77.09%
2013-2014	Electronics and Electric Technology	7/15	46.67%	84.60%
	Electrical	26/38	68.42%	79.13%
2012-2013	Electronics and Electric Technology	8/17	47.06%	85.44%
	Electrical	27/32	84.38%	80.24%

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
2014-2015	Electronics and Electric Technology	7/7	100%	56.03%
	Electrical	15/17	88.24%	80.83%
2013-2014	Electronics and Electric Technology	8/8	100%	70.53%
	Electrical	13/13	100%	83.59%
2012-2013	Electronics and Electric Technology	12/12	100%	67.04%
	Electrical	5/5	100%	83.26%

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
BLDC101	2014-2015	2	35	98.57%
BLDC101	2013-2014	2	30	85.71%
BLDC101	2012-2013	3	20	92.31%
Course	Year	Sections	Avg. Class	Fill Rate
EWIR110	2014-2015	2	22	110%
EWIR110	2013-2014	2	19	92.50%
EWIR110	2012-2013	2	22	110%

Course	Year	Sections	Avg. Class	Fill Rate
EWIR115	2014-2015	2	18	90%
EWIR115	2013-2014	1	22	110.00%
EWIR115	2012-2013	1	19	95%
Course	Year	Sections	Avg. Class	Fill Rate
ELTR120	2014-2015	2	21	93%
ELTR120	2013-2014	1	13	59.09%
ELTR120	2012-2013	2	17.5	80%

Course	Year	Sections	Avg. Class	Fill Rate
ELTR140	2014-2015	2	14	62.64%
ELTR140	2013-2014	1	18	81.82%
ELTR140	2012-2013	2	12.5	56.86%

Course	Year	Sections	Avg. Class	Fill Rate
ELTR220	2014-2015	1	11	50.00%
ELTR220	2013-2014	1	12	54.55%
ELTR220	2012-2013	1	10	45.45%

Course	Year	Sections	Avg. Class	Fill Rate
ELTR240	2014-2015	1	9	40.91%
ELTR240	2013-2014	1	9	40.91%
ELTR240	2012-2013	1	6	27.27%

IX. Completions

	2014-2015		2013-2014		2012-2013	
	Degrees	Certificates	Degrees	Certificates	Degrees	Certificates
Electrical Technology	0	0	0	0	3	4

X. FTES/FTEF Analysis

Year	FTES	FTEF	FTES/FTEF
2014-2015	72.19	7.8	9.26
2013-2014	51.11	6	8.52
2012-2013	55.21	7.13	7.74

XI. Facility Utilization Plan

The program is using a new state-of-the-art facility and laboratory and is able to provide optimal hands-on and practical training for students.

XII. SWOT Analysis

<p>Strengths New facility Funding for new equipment FT faculty hired</p>	<p>Weaknesses High cost program due to safety and space limitations.</p>
<p>Opportunities Industry certifications (NCCER) and full program approval (DAS).</p>	<p>Threats Competition with private schools that offer expedited certificate programs.</p>

XIII. Program Evaluation

The Electrical program has acceptable Perkins performance numbers and a low number of completers. The program has been operating with part-time faculty from its inception and lacked the nurturing, dedication and time of a full-time faculty member. The College has hired a FT faculty who is evaluating the program and will be applying for program certification from DAS as well as NCCER. Electricians were identified by the California Centers of Excellence as one of the highest demand occupations in Imperial Valley.

XIV. Recommendations

It is recommended that the Electrical Technology program continue at Imperial Valley College. Faculty shall continue its efforts to obtain full program approval from the Department of Apprenticeship Standards and the National Center for Construction Education and Research.