

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

WELDING TECHNOLOGY

I. Program Description

The practice of joining metals by welding is becoming more of a science every day. Imperial Valley College recognizes this and consequently has instituted a two-year Associate Degree program in Welding Technology. This program is designed to train technicians by giving the student ample laboratory welding practice along with related theory, plus a firm background in associated subjects such as mechanics and metal-fabricating techniques.

A. Degree

Associate in Science, Welding Technology

B. Certificate

Certificated of Achievement, Welding Technology

II. Career Opportunities

To certify IVC Welding Technology Program to the AWS SENSE Standards (Schooling Excelling through National Skills Standards Education) and implement the SENSE based curriculum. The SENSE based curriculum should be approved for implementation during the academic years.

III. Industry Certification/Accreditation

One area for the College is to seek SENSE certification and alignment so that the curriculum is validated through a National Certification. Today, the program has solid numbers that demonstrated a clear need for the program. Additionally, welders is a high growth industry in Imperial Valley.

IV. Industry Recognized Credentials (IRC)

The Welding 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:

V. Labor Market Demand

The Welding 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
Welders, Cutters, Solderers, and Brazers	0956.50	514121	70	5*

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

B. Employment Trends Assessment

By improving and developing new CTE courses, including the development of programs of study for consideration by the state and courses that prepare individuals academically and technically for high skill, high wage, or high demand occupation and dual or concurrent enrollment opportunities.

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	Welding Technology	9/15	60%	51.18%
2013-2014	Welding Technology	8/18	44.44%	50.10%
2012-2013	Welding Technology	17/39	43.59%	50.34%

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	Welding Technology	22/30	73.33%	74.02%
2013-2014	Welding Technology	33/50	66%	78.90%
2012-2013	Welding Technology	59/85	69.41%	79.40%

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	Welding Technology	14/15	93.33%	61.14%
2013-2014	Welding Technology	19/20	95%	67.72%
2012-2013	Welding Technology	34/34	100%	67.44%

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

WELD100	2013-2014	4	18	100.00%
WELD100	2012-2013	4	17	94.44%

Course	Year	Sections	Avg. Class	Fill Rate
WELD101	2014-2015	1	19	105.56%
WELD101	2013-2014	1	20	111%
WELD101	2012-2013	1	16	88.89%

Course	Year	Sections	Avg. Class	Fill Rate
WELD102	2014-2015	2	14	77.78%
WELD102	2013-2014	1	11	61.11%
WELD102	2012-2013	1	11	61.11%

Course	Year	Sections	Avg. Class	Fill Rate
WELD103	2014-2015	0	0	0.00%
WELD103	2013-2014	1	9	50%
WELD103	2012-2013	1	22	122.22%

Course	Year	Sections	Avg. Class	Fill Rate
WELD104	2014-2015	1	10	55.58%
WELD104	2013-2014	0	0	0.00%
WELD104	2012-2013	1	18	100.0%

Course	Year	Sections	Avg. Class	Fill Rate
WELD105	2014-2015	2	13	72.22%
WELD105	2013-2014	1	18	100.00%
WELD105	2012-2013	2	13.5	75%

IX. Completions

	2014-2015		2013-2014		2012-2013	
	Degrees	Certificates	Degrees	Certificates	Degrees	Certificates
Welding Technology	3	0	0	0	0	0

X. FTES/FTEF Analysis

Year	FTES	FTEF	FTES/FTEF
2014-2015	45.51	5.2	8.75
2013-2014	35.46	3.89	9.12
2012-2013	41.36	4.93	8.39

XI. Facility Utilization Plan

XII. SWOT Analysis

<p>Strengths Program seems to be operating at 90% capacity and enrollment seems to be growing steadily.</p>	<p>Weaknesses More WELD 100 courses should be offered to attract more students into the program because this is our gateway class.</p>
<p>Opportunities Certification opportunities can be offered to students once instructors become CWI Certified.</p>	<p>Threats N/A</p>

XIII. Program Evaluation

The Welding Technology program is housed in a state-of-the-art facility with modern equipment and facilities. Perkins performance data is consistent with State averages and standards. Fill rates for classes is high. Productivity is low which is consistent with most CTE programs that have limitations on enrollment due to safety and laboratory space and equipment. There is a gradual reduction of degrees and certificates. Local labor market demand is stable.

XIV. Recommendations

It is recommended that the Welding Technology program continue at Imperial Valley College continue with mitigation and an evaluation of certificate and degree completers.