

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

FIRE TECHNOLOGY

I. Program Description

The Fire Technology Certificate is designed to expand skills/knowledge in the areas of building and life safety, fire prevention, and fire protection services and for the transition from Firefighter to Fire Officer.

A. Degree - Associate in Science, Fire Technology

B. Certificate - Certificated of Achievement, Fire Technology

II. Career Opportunities

- Firefighter
- Fire Officer – multiple specialties

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

In Spring 2013, the Fire Academy achieved full accreditation from the State. In doing so, the Fire Technology courses were also reviewed

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

The State Fire Training certificates and the Office of State Fire Marshall issue state certifications based on successful completion of state exams and/or state mandated skills check-offs. The courses at IVC allow the student to take the exams and achieve the state certification.

V. Labor Market Demand

The Fire 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
Fire Fighters	2133.00	332011	150	7*

*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):

In the past 8 years, 62 people achieved employment at a local fire department following completion of the Academy. Once employed as a firefighter, advancement is based on the completion of courses and state fire certifications; firefighter II, engineer, captain, and chief. The IVC courses in Fire Technology make advancement attainable. The Fire Technology course work is not duplicated within Imperial County and without such courses, firefighters seeking advancement must travel 2 to 12 hours for their coursework.

VI. Other Regional Programs

There are no other similar training programs in Imperial County.

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	Fire Technology	7/9	77.78%	78.05%
2012-2013	Fire Technology	8/9	88.89%	76.14%
2011-2012	Fire Technology	5/6	83.33%	76.47%

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	Fire Technology	19/22	86.36%	87.52%
2012-2013	Fire Technology	25/27	92.59%	87.35%
2011-2012	Fire Technology	4/8	50%	86.39%

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	Fire Technology	5/5	100%	86.48%
2012-2013	Fire Technology	4/4	100%	85.08%
2011-2012	Fire Technology	7/7	100%	86.38%

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
FIRE100	2012-2013	2	16.5	20	82.50%
FIRE100	2011-2012	2	31.5	50	63%
FIRE100	2010-2011	2	27.5	25	110%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
FIRE101	2012-2013	1	22	20	110%
FIRE101	2011-2012	2	26	50	52%
FIRE101	2010-2011	2	33.5	25	134%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
FIRE102	2012-2013	1	15	20	75.00%
FIRE102	2011-2012	2	21.5	50	43%
FIRE102	2010-2011	2	25.25	25	102.00%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
FIRE103	2012-2013	2	13.5	20	67.50%
FIRE103	2011-2012	2	13.5	50	27%
FIRE103	2010-2011	2	22.5	25	90%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
FIRE104	2012-2013	2	13.5	20	67.50%
FIRE104	2011-2012	2	19.5	50	39%
FIRE104	2010-2011	2	21	25	84.00

Course	Year	Sections	Avg. Class	CAP	Fill Rate
FIRE108	2012-2013	1	15	20	75%
FIRE108	2011-2012	2	17	50	34%
FIRE108	2010-2011	2	14.5	25	58%

IX. Completions

	2012-2013		2011-2012		2010-2011	
	Degree	Certificate	Degree	Certificate	Degree	Certificate
Fire Technology	4	1	3	0	1	0

X. FTES/FTEF Analysis

Year	FTES	FTEF	FTES/FTEF
2012-2013	138.92	10.57	13.14
2011-2012	153.83	11.2	13.73
2010-2011	165.29	11.33	14.59

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

The Fire Technology program will be moving into a new building in Spring/Summer 2014 – less than six months. The fire instructors are in the process of determining additional equipment needs for the new teaching facility.

XII. SWOT Analysis (to be completed by faculty)

Strengths • Strong commitment from Advisory Committee, comprised primarily of local Fire Chiefs and Fire Captains • New facility opening in 2014, which will have smart classroom and opportunities to work with the EMS and AJ disciplines	Weaknesses • No full-time faculty members despite multiple unique fire courses • Coordination of program is done in a collaborative and volunteer manner. • The lack of GE on-line course is prohibitive to working fire fighters • The lack of Fire on-line courses is prohibitive to working fire fighters seeking advancement
Opportunities • To create internship experiences with local fire departments • To increase completions (certificates & degrees) through increased involvement of counseling and ongoing encouragement of faculty • To establish on-line Fire Technology courses •	Threats • Part-time program due to lack of full-time faculty • Lack of funding to expand if needed •

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

XIV. Recommendation (to be completed by EWD office)