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

AUTOMOTIVE TECHNOLOGY

I. Program Description

This program will train students as automotive technician with advance skills to perform service and maintenance on State-of-The-Art vehicles. By completing this program requirement, the student will gain proficiency in safety, automotive services, testing, troubleshooting, brakes, suspension, wheel alignment, engine tune-up, electrical systems, fuel systems (carburetion and fuel injection), emission systems, transmission, drive train, engine repairs, engine rebuilding, automotive machining, and air conditioning. Competence will be assessed regularly in accordance with Automotive Service Excellence (ASE) standards. Graduates of this Automotive Technology Program are prepared and trained to pass the ASE exam and to seek employment in related automotive fields.

A. Degree

Associate in Science, Automotive Technology

B. Certificate

Certificated of Achievement, Automotive Technology

II. Career Opportunities

Automotive Service Technicians and Mechanics

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

The automotive program is fully certified by the National Automotive Technicians Education Foundation (NATEF). This certification ensures the student will receive training in automotive repair that meets automotive industry standards. Upon completion of the program a student will be prepared for an entry-level position in the automotive industry.

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

The non-profit National Institute for Automotive Service Excellence (ASE) works to improve the quality of vehicle repair and service by testing and certifying automotive professionals. Today, more than 330,000 professionals hold ASE certifications, and work in every part of the automotive service industry.

V. Labor Market Demand

The Automotive 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
Automotive Service Technicians and Mechanics	0948.00	493023	340	11*

*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):

Automotive Technology is rapidly growing in sophistication, and employers are increasingly looking for workers who have completed a formal training program in high school or in a postsecondary vocational school or community college. Acquiring National Institute for Automotive Service Excellence (ASE) certification is very important for those seeking work in the automotive repair industry.

Employment of automotive service technicians and mechanics is expected to increase by 11.8%. Continued growth in the number of vehicles in use in the Imperial Valley will lead to new jobs for technicians performing basic car maintenance and repair. The increasing use of advanced technology in automobiles will also lead to new opportunities for repair technicians, especially those with specialized skills or certifications.

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	Automotive Technology	16/44	36.36%	66.22%
20 1 2-2013	Automotive Technology	8/20	40%	· 63.54%
2011-2012	Automotive Technology	8/20	40%	63.18%

PERKINS IV Program Performance Trend Report
Core Indicator Two – Total Completions – Certifications, Degrees and Transfer
https://misweb.ccco.edu/perkins/Core Indicator Reports/Summ coreIndi TOPCode.aspx

<u>Core 3:</u> 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	Automotive Technology	48/80	60%	82.59%
2012-2013	Automotive Technology	42/54	77.78%	81.50%
2011-2012	Automotive Technology	35/49	71.43%	81.23%

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

<u>Core 4:</u> 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	Automotive Technology	37/37	100%	74.32%

2012-2013	Automotive Technology	13/13	100%	73.21%
2011-2012	Automotive Technology	16/16	100%	71.28%

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
Γ	AUT110	2012-2013	3	15	19	75.86%
Γ	AUT110	2011-2012	2	19	18	105.56%
Γ	AUT110	2010-2011	2	19.5	18	108.33%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
AUT125	2012-2013	2	17	19	89.47%
AUT125	2011-2012	3	17.6	18	98.15%
AUT125	2010-2011	3	20.7	18	114.81%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
AUT130	2012-2013	1	18	20	90%
AUT130	2011-2012	4	13.5	15	87.10%
AUT130	2010-2011	1	21	18	116.67

Course	Year	Sections	Avg. Class	CAP	Fill Rate
AUT150	2012-2013	2	9	20	45%
AUT150	2011-2012	1	11	18	61.11%
AUT150	2010-2011	2	22.5	18	125%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
AUT155	2012-2013	2	16	20	80%
AUT155	2011-2012	1	20	18	111.11%
AUT155	2010-2011	3	18.7	18	103.7%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
AUT160	2012-2013	2	19	20	95%
AUT160	2011-2012	2	18	18	100%
AUT160	2010-2011	1	19	18	105.56%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
AUT170	2012-2013	2	15	16	96.77%
AUT170	2011-2012	2	17	18	94.44%
AUT170	2010-2011	1	. 21	18	116.67%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
AUT180	2012-2013	1	14	20	70%
AUT180	2011-2012	1	14	18	77.78%
AUT180	2010-2011	1	21	18	116.67%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
AUT210	2012-2013	2	16	20	80%
AUT210	2011-2012	2	14	18	77.78%
AUT210	2010-2011	2	20.5	18	113.89%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
AUT220	2012-2013	1	12	18	66.67%
AUT220	2011-2012	1	15	18	83.33%
AUT220	2010-2011	2	20	17	117.65%

Course	Year	Sections	Avg. Class	CAP	Fill Rate
AUT230	2012-2013	1	10	20	50%
AUT230	2011-2012	1	10	18	55.56%
AUT230	2010-2011	1	20	18	111.11%

IX. Completions

	2012-2013		2011-2012		2010-2011	
	Degrees	Certificates	Degrees	Certificates	Degrees	Certificates
Automotive Technology	0	0	0	0	2	3

X. FTES/FTEF Analysis

Year	FTES	FTEF	FTES/FTEF
2012-2013	58.86	8.47	6.95
2011-2012	153.41	14.66	10.46
2010-2011	186.63	14.94	12.49

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

The primary reason students attend the automotive program is to gain the skill needed to get a job in the automotive industry. There needs to be follow up to identify the number of students that gained employment from their experience. Completion rate is impacted by students leaving early with job opportunities. Updating curriculum in additional certificates for students who do not complete all the courses but choose to specialize. The department is in the process of developing certificates of achievement for student completion, retention, and success.

Form stronger partnerships with industry and articulate regional occupational centers and high schools. Continue Advisory Committee meetings.

XII. SWOT Analysis (to be completed by faculty)

Strengths Continue with requirements for National Automotive Technicians Education Foundation (NATEF) accreditation. These achievable goals will bring the Automotive Technology Department to the forefront of automotive technology education.

Weaknesses Success rate is impacted by students leaving early with job opportunities. Although the majority of students intend to earn a certificate or degree, many gain employment after enrolling in only one or two classes and are therefore not tracked nor identified as program completers.

Opportunities The Automotive Program is in the process of updating its curriculum.

Developing new certificates of achievement that will provide student retention, completion and success rates. These courses are in the process and completion is anticipated.

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

XIV. Recommendations