California Education Code
2000 Desktop Edition

Accounting Tech 0502

Division 7, Part 48, Chapter 1, Article 1

§ 78016. Review of program; termination

(a) Every vocational or occupational training program offered by a community college district shall be reviewed every two years by the governing board of the district to ensure that each program, as demonstrated by the California Occupational Information System, including the State-Local Cooperative Labor Market Information Program established in Section 10533 of the Unemployment Insurance Code, or if this program is not available in the labor market area, other available sources of labor market information, does all of the following:

(1) Meets a documented labor market demand.

The two main sectors for which we educate students have increased in labor market demand both locally and in the state. According to the September 21, 2007 EDD Labor Market Information for Imperial County Professional and Business Services sector showed an increase from 2,600 in August 06 to 3,200 in August 07, which is an increase of 600 jobs. The Government sector showed an increase from 17,000 to 17,700, an increase of 700 jobs. The California Labor Market Review shows both sectors are also up over the year in the State, 35,200 and 52,600 respectively.

(2) Does not represent unnecessary duplication of other manpower training programs in the area.

The programs do not represent unnecessary duplication in Imperial County. IVC offers the only college level program.

(3) Is of demonstrated effectiveness as measured by the employment and completion success of its students.

There is no institutional tracking system to evaluate/analyze the success rates of students who transition to the job market or who are promoted. Instructors in the program, however, do hear from students who have been successful in finding jobs.

The department views program completers as students who have taken all the coursework required for a certificate or degree. The information below represents students who have officially petitioned for certificates and degrees. However, if students have not officially petitioned, there is no way to know how many have actually completed all the coursework. We are currently in the process of implementing a program, Degree Works, that will give us access to that information.

Certificates Awarded		**Degrees Awarded**	
Pending: Applied Science requesting data			

(1) Has an advisory committee.
The program advisory committee met April, 2007.

b) Any program that does not meet the requirements of subdivision (a) and the standards promulgated by the governing board shall be terminated within one year.

(c) The review process required by the section shall include the review and comments by the local Private Industray Council established pursuant to Division 8 (commencing with Section 15000) of the Unemployment Insurance Code, which review and comments shall occur prior to any decision by the appropriate governing body.

(d) This section shall apply to each program commenced subsequent to July 28, 1983.

(e) A written summary of the findings of each review shall be made available to the public. *(Added by Stats. 1979, c. 977, p. 3347, § 8, eff. Sept. 22, 1979. Amended by Stats. 1992, c. 1329, p. 4906, § 5; Stats. 1983, c. 537, § 4, eff. July 28, 1983; Stats. 1990, c. 1667 (S.B.1033), § 4.5; Stats. 1998, c. 365 (A.B. 2214), § 2.)*

California Education Code
2000 Desktop Edition

Business Administration/Administrative Assistant 0501

Division 7, Part 48, Chapter 1, Article 1

§ 78016. Review of program; termination
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(1) Meets a documented labor market demand.
The two main sectors for which students in this program are educated have increased in labor market demand both locally and in the state. According to the September 21, 2007 EDD Labor Market Information for Imperial County Professional and Business Services sector showed an increase from 2,600 in August 06 to 3,200 in August 07, which is an increase of 600 jobs. The Government sector showed an increase from 17,000 to 17,700, an increase of 700 jobs. The California Labor Market Review shows both sectors are also up over the year in the State, 35,200 and 52,600 respectively.

(2) Does not represent unnecessary duplication of other manpower training programs in the area.
The program does not represent unnecessary duplication of other manpower training programs in the area. IVC is the only community college in Imperial County and as such is the only provider of a college level program.

(3) Is of demonstrated effectiveness as measured by the employment and completion success of its students.
There is no institutional tracking system to evaluate/analyze the success rates of students who transition to the job market or who are promoted. Instructors in the program, however, do hear from students who have been successful in finding jobs.

The department views program completers as students who have taken all the coursework required for a certificate or degree. The information below represents students who have officially petitioned for certificates and degrees. However, if students have not officially petitioned, there is no way to know how many have actually completed all the coursework. We are currently in the process of implementing a program, Degree Works, that will give us access to that information.

Certificates Awarded		**Degrees Awarded**	
Pending: Applied Science requesting data			

(4) Has an advisory committee.
The program advisory committee met April, 2007.

b) Any program that does not meet the requirements of subdivision (a) and the standards promulgated by the governing board shall be terminated within one year.

(c) The review process required by the section shall include the review and comments by the local Private Industray Council established pursuant to Division 8 (commencing with Section 15000) of the Unemployment Insurance Code, which review and comments shall occur prior to any decision by the appropriate governing body.

(d) This section shall apply to each program commenced subsequent to July 28, 1983.

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Imperial Valley College (IVC) Agriculture Program
Division 7, Part 48, Chapter 1, Article 1
§ 78016. Review of program; termination

1. Meets a documented labor market demand

The agriculture content area meets a demonstrated and documented labor market need as determined by the Imperial Valley College (IVC) agriculture advisory committee. This body being largely comprised of industry representatives has the knowledge base that accurately represents and reports the needs of the agriculture industry and producers.

These needs are constantly monitored by the advisory committee members so that the Division of Science, Math & Engineering can maintain an active plan for insuring that the agriculture program has the necessary resources to provide current and prudent training to student stake holders.

2. Does not represent unnecessary duplication of manpower training programs in the area.

The agriculture program does not represent unnecessary duplication of other manpower training programs in the area. Imperial Valley College is the only community college in the County and therefore the only source for training in this program content area. There are no community based non-profit organizations or for profit institutions that offer this subject material. The IVC Program provides for the earning of Technical Certificates and Associate's Degrees.

3. Is of demonstrated effectiveness as measured by the employment and completion success of its students.

The IVC agriculture program prepares students for either transfer to a four year institution for continued study in the discipline of Agriculture Science or to go directly into the work force. The Agriculture Advisory Committee reports that area and regional industry leaders report that past hires who attend or who attended Imperial Valley College's agriculture program demonstrate exemplary work skills and ethics.

4. Does the program have an active CTE Program Advisory Committee, and when is the last time it met?

The IVC agriculture program does have a very well rounded and active advisory committee. The committee meets the first Monday of each month at 17:30 in the conference room of the UC Davis Melowland research station in Imperial, California. The last meeting was held at the facility on Monday the first of October 2007.

California Education Code
2000 Desktop Edition

Computer Information Systems 0701/0702

Division 7, Part 48, Chapter 1, Article 1

§ 78016. Review of program; termination

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(1) Meets a documented labor market demand.

The two main sectors for which we educate students have increased in labor market demand both locally and in the state. According to the September 21, 2007 EDD Labor Market Information for Imperial County Professional and Business Services sector showed an increase from 2,600 in August 06 to 3,200 in August 07, which is an increase of 600 jobs. The Government sector showed an increase from 17,000 to 17,700, an increase of 700 jobs. The California Labor Market Review shows both sectors are also up over the year in the State, 35,200 and 52,600 respectively.

(2) Does not represent unnecessary duplication of other manpower training programs in the area.

The programs do not represent unnecessary duplication in Imperial County. IVC offers the only college level program.

(3) Is of demonstrated effectiveness as measured by the employment and completion success of its students.

There is no institutional tracking system to evaluate/analyze the success rates of students who transition to the job market or who are promoted. Instructors in the program, however, do hear from students who have been successful in finding jobs or have successfully passed an industry certification exam.

The department views program completers as students who have taken all the coursework required for a certificate or degree. The information below represents students who have officially petitioned for certificates and degrees. However, if students have not officially petitioned, there is no way to know how many have actually completed all the coursework. We are currently in the process of implementing a program, Degree Works, that will give us access to that information.

Certificates Awarded		Degrees Awarded	
Pending: Applied Science requesting data			

(1) Has an advisory committee.
The program advisory committee met April, 2007.

b) Any program that does not meet the requirements of subdivision (a) and the standards promulgated by the governing board shall be terminated within one year.

(c) The review process required by the section shall include the review and comments by the local Private Industray Council established pursuant to Division 8 (commencing with Section 15000) of the Unemployment Insurance Code, which review and comments shall occur prior to any decision by the appropriate governing body.

(d) This section shall apply to each program commenced subsequent to July 28, 1983.

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California Education Code
2000 Desktop Edition

Business Financial Services 0504

Division 7, Part 48, Chapter 1, Article 1

§ 78016. Review of program; termination

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Certificates Awarded		**Degrees Awarded**	
Pending: Applied Science requesting data			

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The program advisory committee met April, 2007.

b) Any program that does not meet the requirements of subdivision (a) and the standards promulgated by the governing board shall be terminated within one year.

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California Education Code
2000 Desktop Edition

Business Management 0506

Division 7, Part 48, Chapter 1, Article 1

§ 78016. Review of program; termination

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California Education Code
2000 Desktop Edition

Business Marketing 0506

Division 7, Part 48, Chapter 1, Article 1

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California Education Code
2000 Desktop Edition

Office Tech/LegalAssistant 0514

Division 7, Part 48, Chapter 1, Article 1

§ 78016. Review of program; termination

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ED Code 78016 Review

Jose Guerrero
P.O.S.T. Coordinator
Imperial Valley College
10-16-07

1. The P.O.S.T. Reserve Courses is the first stepping stone towards a career in law enforcement. The courses afford the students to learn the basics of law enforcement and policing in the community. It is considered an introductory to the field. There are currently a Reserve Level II and Reserve Level III to include Arrest and Firearms Training Course at the college. Upon completion of any of these courses the student receives a certificate. The student can then proceed to gain employment with local law enforcement agencies where they will be afforded the opportunity to apply the knowledge and skills they have received during their training. The Reserve Programs with the local law enforcement agencies are considered volunteered. In some cases after the Reserve Officer Completes the 16 hour a month mandatory time, he or she may be paid for any time after the 16 hour requirement. This program also allows the student to make a decision towards a career in many cases leading the student to seek out a full time peace officer job within the state. Currently, in the state of California the labor demand for police officers and correctional officers is probably at its highest. Locally, in Imperial Valley there are agencies such as the El Centro Police Department, Imperial County Sheriff's Office and the two local prisons who are understaffed and are seeking out qualified and trained personnel. The Imperial Valley College is providing that student the skills necessary to meet those labor demands. Therefore, the education and police science courses offered at I.V.C. clearly meet the labor market demands.

2. The Administration of Justice, Corrections and Police Science Courses here at the Imperial Valley College/CTE Program does not represent unnecessary duplication of other manpower training programs in the area. Currently, I.V.C. is the only community college in Imperial County and provider of this program. The most approximate locations of these programs would be in San Diego County, Riverside County and San Bernardino County. This is clearly an inconvenience for the student because of driving time or time needed off from work to attend these programs outside of the Imperial Valley. The I.V.C. Program provides for the earning and Completion Certificates and AA/AS Degree.

3. Concerning the 832 P.C. Arrest and Firearms Course at I.V.C. the course is of high demand. The majority of the students seek out this course to gain and use the training for employment with the California Department of Corrections and Rehabilitation. A low number seeks out the course for other volunteer and work requirements such as working for the Imperial County Juvenile Hall and Betty Jo McNeece Center. The 832 P.C. allows for a maximum enrollment of 25 students due to other restrictions. However, for the upcoming, Spring 2008 two courses

will be made available because of the high demand and express concern from the student wanting this course available at all times. Concerning the Reserve Courses, a Reserve Level II is expected for Spring 2008 because the course has not been offered since 2004 and the current enrollment in the Reserve Level III stands at 18 students who are now nearing completion and wanting to move to the Level II Course.

4. Right now, as the P.O.S.T. Coordinator for the P.O.S.T. program at I.V.C. there are meetings I have attended with the local law enforcement trainers which is made up of Calexico Police Department, El Centro Police Department, Imperial Police Department, Holtville Police Department and the Imperial County Sheriff's Department where the meetings are held. These meetings are headed by Steve Lewis who is the P.O.S.T. Representative for P.O.S.T. Region 10. The meetings are important because discussion takes place on what the law enforcement community is facing as far as new laws, regulations, upcoming training and updated requirements through P.O.S.T. to include and making sure that every agency to include the Imperial Valley College is in compliance with certification and training according to the Peace Officer Standards and Training Requirements. Our last meeting was held on 10-10-07.

Respectfully,

Jose Guerrero
Public Safety
Imperial Valley College
380 E. Aten Road
Imperial, CA 92251
p(760)355-6279 f(760) 355-6192
jose.guerrero@imperial.edu

Electrical Wiring

(1) Meets a documented labor market demand.

Electricians California Occupational Guide Number 121

Consist of: Installation, maintain, remodeling, blueprint distribution, and repairing electrical systems and many more areas.

Employment Outlook in California

The following information is from the California Projection of Employment published by the Labor Market Information Division.

- Estimated Number of Workers in 1993 (38,220)
- Estimated Number of Workers in 2005 (45,160)
- Projected Growth 1993 – 2005 (18%)
- Estimated opening due to separation by 2005 (11,250)

(These figures do not include self-employment or opening date turnover)

General economic conditions affect the construction industry and in turn, the demand for construction electricians. The demand for building maintenance electricians is generally more stable.

Finding Job

Apprenticeship candidates should inquire at the union, The California division of Apprenticeship standards or the California Employment Department; non-union entrants who graduated from vocational or trade schools may apply directly to employers for an on-the-job training program or work with trade school recruiters. Experienced electricians apply to the union or directly to private employers and civil service agencies.

(2) Does not represent unnecessary duplication of other manpower training Programs in the area.

Training Programs

The Imperial Valley R.O.P. Program is offering two electrical courses in the El Centro are which includes, advanced electronics and residential wiring.

These courses provides instruction in basic materials, use of hand tools, wiring switches, light installing conduit breakers and identifying electrical symbols on construction plans.

Calipatria Prison is offering two electrical courses for their inmates.

These courses consist of: electrical work and consumer electronics.

(3) Is of demonstrated effectiveness as measured by the employment and completion success of its students.

<u>IVC students are working in the following:</u>

- Local Construction Jobs
- Imperial Irrigation District (IDD Energy)

CALIFORNIA EDUCATION CODE
2000 Desk Edition

WELDING TECHNOLOGY

Division 7, Part 48, Chapter 1, Article 1

(1) Meets a documented labor market demand. (See attachments)

(2) Does not represent unnecessary duplication of other manpower training programs in the area.
In the imperial valley county the only welding programs offered are by CET a non profit organization that offer only basic General Maintenance Welding course. Also some high schools offer basic General Maintenance Welding but is part of the Agriculture courses. There is no other school or training facility that offer what IVC offers. We offer beginning, intermitted, and advanced welding courses that provide beginning students and journey level persons the ability to better their skills in welding.

(3) Is of demonstrated effectiveness as measured by the employment and completion success of its students.

In the past year of my employment with IVC the job placement has started to bloom. Companies like NASSCO that is consider the largest ship builder on the west coast has asked for 300 welders by the end of 2008. We have placed some students from IVC. Other companies include ORMAT geo thermal power plants, and the Steamfitters Local 230 that will do the construction of 5 new ethanol plants in the valley. The following companies and organization are partners with IVC.

Search

California Home
EDD Home Page
Tour State & Local Info
Explore Local Areas
Explore Occupations
Find Employers
Training Information
Occupation CodeFinder
****
Economic Development
EDD Staff
Educators / Schools
Employees / Workers
Employers / Business
Job Seekers
Researchers
Workforce Partners
****
LMI e-Newsletter
LMI Glossary of Terms
LMI Publications
Contact Us
How Are We Doing?

New User? Sign Up.
Username:
Password:
LOGIN
Forgot Password?

Employment Development Department
State of California

Occupation Profile

Change Occupa

Welders, Cutters, Solderers, and Brazers
in California

Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal co indentations, or seams of fabricated metal products.

View a Career Video for this occupation from America's Career InfoNet (requires Windows Media

Occupational Wages

Area	Year	Period	Hourly Mean	Hou 25th
California	2007	1st Qtr	$16.47	$11.73

Get More Info (Data Library)

Occupational Projections of Employment (also called "Outlook" or "Demand")

Area	Estimated Year-Projected Year	Employment Estimated	Employment Projected	Employment Char Number	Perc
California	2004 - 2014	29,800	33,100	3,300	1

Get More Info (Data Library)

Job Openings from JobCentral National Labor Exchange

Enter a Zip Code

Find a Zip code in California

Within 25 miles of Zip Code.

Search Jobs

Possible Licenses Required and Issuing Authority

License Title	License Authority
Ornamental Metal Contractor	Department of Consumer Affairs, Contractors State License 9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900
Welding Contractor	Department of Consumer Affairs, Contractors State License 9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900

	California	Employme
Architectural and Structural Metals	2,181	
Building Foundation/Exterior Contractors	11,329	
Commercial Machinery Repair/Maintenance	2,472	
Motor Vehicle Body and Trailer Mfg	168	
Agriculture, Forestry, Fishing & Hunting	9,274	
Machine Shops and Threaded Products	4,645	
Other Fabricated Metal Product Mfg	821	
Motor Vehicle Parts Manufacturing	585	
Other General Purpose Machinery Mfg	1,045	
Office Furniture and Fixtures Mfg	237	
Ship and Boat Building	136	
Ag., Construction, and Mining Machinery	351	
Aerospace Product & Parts Manufacturing	298	
Other Specialty Trade Contractors	13,114	
Nonresidential Building Construction	23,526	

Training Programs (click on Title for more information)

Program Title
Gunsmithing/Gunsmith
Welding Technology/Welder

ONET Skills and Tasks

Skill	Importance
Operation and Control	80
Product Inspection	76

Tasks

Climbs ladders or works on scaffolds to disassemble structures.
Connects hoses from torch to tanks of oxygen and fuel gas, and turns valves to release mixture.
Dismantles metal assemblies or cuts scrap metal, using thermal-cutting equipment such as flame-cu equipment.
Examines workpiece for defects and measures workpiece with straightedge or template to ensure co
Fills cavities or corrects malformation in lead parts and hammers out bulges and bends in metal worl

Related Links

Local Area Profile
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View Similar Occupations

Related Articles and Publications

Data Notes and Sources, 10/4/2007
Labor Market and Economic Analysis 2007 , 5/11/2007
On-line Job Opening Systems, 6/29/2007
Nontraditional Employment for Women, 3/22/2007
New Career Resources - Info on Good-Paying, Hands-On Jobs, 1/11/2007

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Training Program Summary

Welding Technology/Welder

Welding Technology/Welder. A program that prepares individuals to apply technical knowledge and
surfaces. Includes instruction in arc welding, resistance welding, brazing and soldering, cutting, hig
cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, weldin
processes and heat treating, structural design, safety, and applicable codes and standards.

Training Providers for Welding Technology/Welder in California

Provider Name	Progra
Chabot College	Weldin
Laney College	Weldin
Bakersfield Technical College	Weldin
Stockdale High School	Weldin
Inyo County Regional Occupational Program	Weldin
Hanford Adult School	Weldin
Lassen Community College	Weldin
Hacienda La Puente Adult Education	Weldin
Compton Community College	Weldin
Rio Hondo College	Weldin
Consolidated Welding Schools Inc.	Weldin
College of Oceaneering	Weldin
Harbor Occupational Center	Weldin
Glendale Community College	Weldin
East Los Angeles Occupational Center	Weldin
Antelope Valley College	Weldin
College of the Canyons	Weldin
Long Beach City College	Weldin
Cerritos College	Weldin
Pasadena City College	Weldin
Tri-Community Adult Education	Weldin
Long Beach City College	Weldin
El Camino College - Torrance	Weldin
El Rancho Adult School	Weldin
North Valley Occupational Center	Weldin
Associated Training Specialists	Weldin
Imperial Valley College	Weldin
Los Angeles Pierce College	Weldin
Mt San Antonio College	Weldin
Santa Monica College	Weldin
Yolo County Regional Occupational Program	Weldin
IUSD Adult Education	Weldin
Merced College	Weldin

Mariposa County High School Regional Occ	Weldin
Sonora High School Regional Occupational Program	Weldin
Columbia College	Weldin
Hartnell Community College	Weldin
North Orange County ROP - Acacia Facility	Weldin
North Orange County ROP - East Ball Facility	Weldin
Napa Valley College	Weldin
Napa County Regional Occupational Program	Weldin
Fullerton Community College	Weldin
Santa Ana College	Weldin
Orange Coast College	Weldin
Santiago Canyon College	Weldin
Sierra College - Rocklin Campus	Weldin
Palo Verde College	Weldin
Riverside Community College	Weldin
Center for Employment Training	Weldin
American River College	Weldin
Cosumnes River College	Weldin
San Bernardino Valley College (Community)	Weldin
Barstow Community College	Weldin
Victorville College	Weldin
San Diego Community College Cesar Chavez	Weldin
National City Adult School	Weldin
San Diego Community College Continuing Education	Weldin
Palomar College	Weldin
San Diego Continuing Education	Weldin
Delancey Street Foundation	Weldin
City College of San Francisco	Weldin
San Diego Community College, Mid-City	Weldin
San Diego Electrical Training Trust	Weldin
San Diego County ROP SDCOE/JCCS	Weldin
Plumbers and Steamfitters	Weldin
Cuesta College	Weldin
College of San Mateo	Weldin
Center for Employment Training	Weldin
Shasta College	Weldin
Solano Community College	Weldin
Solano County Regional Occupational Program	Weldin
Santa Rosa Junior College	Weldin
Visalia Technical College	Weldin
Cal Trade Welding School	Weldin
California Human Development Corporation	Weldin
Modesto Junior College	Weldin
Modesto Technical College	Weldin
Yosemite ROP	Weldin
Tulare Joint Union High School District	Weldin
Porterville College	Weldin
College of the Sequoias	Weldin
Simi Valley Adult School & Career Institute	Weldin

Mendocino Community College -- Lake Center	Welding Technology/Welder
Plumbers and Fitters U A Local	Welding Technology/Welder
Alhambra Community Adult Education	Welding Technology/Welder
Nevada Union Adult Education	Welding Technology/Welder
San Bernardino Adult Education	Welding Technology/Welder
Manteca Adult School	Welding Technology/Welder
Yosemite Adult Education	Welding Technology/Welder
Eden Area Regional Occupational Program	Welding Technology/Welder
Mission Valley ROP	Welding Technology/Welder
Southeast Regional Occupational Program	Welding Technology/Welder
North Orange County ROP - Main office	Welding Technology/Welder
Colton- Redlands- Yucaipa Regional Occupational Program	Welding Technology/Welder
Central County Regional Occupational Program - Garden Grove	Welding Technology/Welder
Glenn County Regional Occupational Program	Welding Technology/Welder
Imperial Valley Regional Occupational Program	Welding Technology/Welder
Lake County Regional Occupational Program	Welding Technology/Welder
Mendocino County Office of Education, ROP	Welding Technology/Welder
Riverside County Regional Occupational Program	Welding Technology/Welder
Sacramento County Regional Occupational Group	Welding Technology/Welder
Mission Trails Regional Occupational Program	Welding Technology/Welder
Shasta - Trinity Regional Occupational Program	Welding Technology/Welder
Sonoma County Regional Occupational Program	Welding Technology/Welder
Ventura County Regional Occupational Program	Welding Technology/Welder
Tri- County Regional Occupational Program	Welding Technology/Welder
Marin County Regional Occupational Program	Welding Technology/Welder
North Kern Vocational Training Center	Welding Technology/Welder
Kern County Regional Occupational Program	Welding Technology/Welder
Kern High School District Regional Occupational Program	Welding Technology/Welder
Plumbers & Pipe Fitters JAC	Welding Technology/Welder
Central Sierra Regional Occupational Program	Welding Technology/Welder
Pipe Trades	Welding Technology/Welder
Drywall/Lathing Headquarters	Welding Technology/Welder
Los Angeles County ROP	Welding Technology/Welder
L.A. Sheet Metal Workers J.A.T.C.	Welding Technology/Welder
Palo Verde College	Welding Technology/Welder
Central County Regional Occupational Program - Orange	Welding Technology/Welder
Central County Regional Occupational Program - Santa Ana	Welding Technology/Welder
Central County Regional Occupational Program - North Orange County	Welding Technology/Welder
Central County Regional Occupational Program - Coastline	Welding Technology/Welder
Ramona Unified School District	Welding Technology/Welder
San Diego County ROP Southwestern Community College	Welding Technology/Welder
San Diego County ROP Sweetwater Union High School District	Welding Technology/Welder
San Dieguito Union High School District - ROP	Welding Technology/Welder
Ventura College	Welding Technology/Welder
Ventura College East Campus	Welding Technology/Welder
Sorano High School - Regional Occupational Program	Welding Technology/Welder
Needles Regional Occupational Program	Welding Technology/Welder
Bear Valley Regional Occupational Program	Welding Technology/Welder
San Bernardino County Regional Occupational Program	Welding Technology/Welder

Butte County Regional Occupational Program	Welding Technology/Welder
Butte Community College - Oroville	Welding Technology/Welder
Los Medanos College	Welding Technology/Welder
Contra Costa College	Welding Technology/Welder
Pittsburg Adult Education Center	Welding Technology/Welder
West Contra Costa Adult Education	Welding Technology/Welder
Monterey / Santa Cruz Plumbers & Steamfitters	Welding Technology/Welder
Reedley College	Welding Technology/Welder
Los Angeles Trade - Technical College	Welding Technology/Welder
Valley Vocational College	Welding Technology/Welder
Quality College Inc	Welding Technology/Welder
West Hills College	Welding Technology/Welder
Central Valley Automotive & Machinist Joint Apprenticeship Committee	Welding Technology/Welder
Cabrillo College	Welding Technology/Welder
College of the Redwoods	Welding Technology/Welder
Center for Employment Training (CET)	Welding Technology/Welder
Bakersfield Adult School	Welding Technology/Welder
Cerro Coso Community College	Welding Technology/Welder
Bakersfield College	Welding Technology/Welder

Occupations for Welding Technology/Welder in California

Occupation Title	Estimated Year - Projected Year	Employment		Employment Change		Minimum Educational Requirement	View Video
		Estimated	Projected	Number	Percent		
Sales Representatives, Wholesale & Manufacturing	2004 - 2014	47,600	55,900	8,300	17.4	Moderate-term on-the-job training (1-12 months)	View Video
Welders, Cutters, Solderers, and Brazers	2004 - 2014	29,800	33,100	3,300	11.1	Post secondary vocational training	View Video
Welding, Soldering, and Brazing Machine Setters, O	2004 - 2014	2,700	2,800	100	3.7	Moderate-term on-the-job training (1-12 months)	
Metal Workers and Plastic Workers, All Other	2004 - 2014	3,600	3,300	300	-8.3	Moderate-term on-the-job training (1-12 months)	
Grinding and Polishing Workers, Hand	2004 - 2014	7,000	6,800	200	-2.9	Moderate-term on-the-job training (1-12 months)	View Video
Inspectors, Testers, Sorters, Samplers & Weighers	2004 - 2014	53,300	56,600	3,300	6.2	Moderate-term on-the-job training (1-12 months)	View Video

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AUTOMOTIVE COLLISION REPAIR

(1) Meets a documented labor market demand.

In California, the proportion of union membership among Automotive-Body Repairers tends to vary, depending on the employer and geographic area. Those employed by large automobile dealers, trucking companies, and bus lines are nearly all covered by union contracts. Many small independent repair shops are non-union.

Employment Outlook in California

The following information is from the California Projection of Employment published by the Labor Market Information Division.

- Estimated Number of Workers in 1993 (14,860)
- Estimated Number of Workers in 2005 (18,570)
- Projected Growth 1993 – 2005 (25%)
- Estimated opening due to separation by 2005 (4,990)

(These figures do not include self-employment or opening date turnover)

In conclusion; job growth for repairers will be about the same as the average for all occupations in California. Some areas throughout the state reported a shortage of qualified workers although a surplus of inexperienced trade school graduate exists.

Occupational Code References:

- Automotive-Body Repairers 807.381-010
- Frame Straighter 807.484-010
- Glass Installer 865.684-010

(2) Does not represent unnecessary duplication of other manpower training Programs in the area.

Training Programs

The Imperial Valley R.O.P. Program is offering two auto-body classes at Calipatria High School which include paint and fender repair.

These courses prepare students for entry-level jobs in the auto body and fender repair field.

In addition, the Calipatria State Prison is offering auto-body courses for their inmates.

These courses consist of: (1) auto-body repair (2) auto-body painting

(3) Is of demonstrated effectiveness as measured by the employment and completion success of its students.

<u>IVC students are employed at the following companies:</u>

- Robinson Ford Dealer
- El Centro Motors Dealer
- Rogers and Rogers Dealer
- Direct Auto Plaza Dealer
- Enterprise Car Rental
- G&G Automotive
- M&M Auto-Body Repair
- Del Norte Chevrolet
- El Centro Body Shop

IMPERIAL VALLEY COLLEGE
INDUSTRIAL TECHNOLOGY

AUTOMOTIVE/AUTOMOTIVE COLLISION REPAIR ADVISORY COMMITTEE

UNADOPTED MINUTES

Meeting of May 29, 2008

Those in attendance were as follows:

BUSINESS/INDUSTRY REPRESENTATIVES

Bill Hahn, Kragen Auto Parts
Refugio Hernandez, IVC Student
Felipe D. Magos, M&M Paint Body Shop
Rosie Magos, M&M Paint and Body Shop
Jose Perez, J& D Auto
Angel Uribe, Calexico High School
Charles Veretto, Direct/Desert Auto Plaza
Victor Zamorano, Pep Boys

IMPERIAL VALLEY COLLEGE REPRESENTATIVES

Frances Arce-Gomez, Industrial Technology Secretary
Gonzalo Huerta, Dean of Instruction for Applied Sciences
Hugo Mendez, Adjunct Faculty
Jorge Guluarte, Tool Room Technician
Jose Lopez, Industrial Technology Coordinator
Jose Plascencia, Counselor
Ricardo Pradis, Automotive Technology Instructor
Patricia Robles, Applied Sciences Secretary
Jesse Ruelas, Tool Room Technician

I. **MEETING CALLED TO ORDER BY ROSA MAGOS AT 12:00 PM**

II. **WELCOME**
Rosie Magos welcomed those in attendance.

III. **INTRODUCTIONS**
All members in attendance were introduced.

IV. **APPROVAL OF MINUTES**
M/S/C Patricia Robles/Gonzalo Huerta to approve minutes with corrections.

V. **PROGRAM STATUS**
Jose Lopez reported the following:

- Approximately 200 technicians took Automotive Service Excellence (ASE) tests.
- Noticed that many of them needed ASE preparation
- The Automotive Technology Division is planning to offer ASE short-term courses.
- The following courses will be offered in the fall: engine performance, two transmission courses, and brakes and suspension.

- Will be attending an electrical car workshop in the summer.
- Automotive Collision Repair courses will be offered in the daytime in the fall.

Jose Perez reported the following:

- Good idea to teach hybrid courses
- Target high school students
- Students want to learn new courses

Ricardo Pradis reported the following:

- Some courses have low enrollment
- Shops should encourage teachers to enroll in automotive courses

Gonzalo Huerta reported the following:

- Automotive Technology department will receive Perkins money.
- Perkins has special performance measures
- Must meet certain targets
- Accountability is important
- A Perkins workshop will be held on Saturday
- The program review process will start in the fall
- Data will be presented in the fall to committee
- Committee will certify data to include in the program review
- Career Fair provides a reality check for students

Joe Espinoza reported the following;

- The Applied Sciences Expo was successful
- Career Fair will be held in October
- Asked the committee to help recruit more participants

VI. INPUT FROM BUSINESS/INDUSTRY

Angel Uribe asked if the automotive instructors had taken any hybrid courses.

Jose Lopez responded that he has taken several hybrid courses.

Felipe Magos stated that perhaps vendors can come to campus to demonstrate with their materials.

VII. OTHER

VIII. NEXT MEETING

The next meeting was tentatively been scheduled for September 10, 2008

IX. THE MEETING WAS ADJOURNED BY ROSA MAGOS AT 1:15 PM.

IMPERIAL VALLEY COLLEGE
INDUSTRIAL TECHNOLOGY
AUTOMOTIVE/AUTOMOTIVE COLLISION REPAIR ADVISORY COMMITTEE

UNADOPTED MINUTES

Meeting of October 30, 2008

Those in attendance were as follows:

BUSINESS/INDUSTRY REPRESENTATIVES

Raul Aguilar, Hunter Engineering
Refugio Hernandez, IVC Student
Felipe D. Magos, M&M Paint Body Shop
Rosie Magos, M&M Paint and Body Shop]
Raj Panjabi, Ranesco
Jose Perez, J& D Auto

IMPERIAL VALLEY COLLEGE REPRESENTATIVES

Frances Arce-Gomez, Industrial Technology Secretary
Jose Lopez, Industrial Technology Coordinator
Ralph Marquez, Counselor
Frank Miranda, HVAC Instructor
Ricardo Pradis, Automotive Technology Instructor
Jesse Ruelas, Tool Room Technician

I. **MEETING CALLED TO ORDER BY ROSA MAGOS AT 12:13 PM**

II. **WELCOME**
Rosie Magos welcomed those in attendance.

III. **INTRODUCTIONS**
All members in attendance were introduced.

IV. **APPROVAL OF MINUTES**
M/S/C Felipe Magos/Joe Espinoza to approve minutes as submitted.

V. **PROGRAM STATUS**
Jose Lopez reported the following:

- Automotive Service Excellence (ASE) exams will be in November.
- Approximately 120 students have registered to take ASE exams.
- Automotive Service Excellence (ASE) exams will be held in May 2009.

Jose Perez announced that automotive classes are lacking classroom space.

Felipe Magos also shared his concerns regarding some safety issues in the automotive collision repair area.

Ricardo Pradis reported that the Industrial Technology facilities had been inspected by the district's insurance carrier. He added that the tool room technicians are currently working on fixing some safety issues that were of concern during the inspection.

VI. INPUT FROM BUSINESS/INDUSTRY

Raj Panjabi spoke briefly about Ranesco. He states the following:

- The company is from Orange County
- Focus on 40 different vocational programs
- Are involved with Skills USA
- Skills USA get students motivated
- Alternative energy is the future
- Industry willing to help with alternative energy
- Suggested that IVC seek grants

Raul Aguilar stated that IVC should encourage basic skills. He also expressed that the committee should be expanded to include more industry members.

Felipe Magos stated that the dealers are very busy. Mr. Magos also shared that some dealers are hiring students right out of high school.

VII. APPLIED SCIENCES EXPO

Joe Espinoza announced that the Applied Sciences Expo is scheduled for April 23, 2009.

Ralph Marquez informed the committee that the Industrial Technology Division has been participating in outreach presentations. The presentations are for continuation and community school students.

Rosa Magos asked for an update on the NATEF process. Jose Lopez responded that the shop is currently being prepared for inspections.

Ricardo Pradis announced that the Industrial Technology Division would like to host an open house.

The also committee discussed the possibility of Industrial Technology students using t-shirts.

IX. NEXT MEETING

The next meeting has been tentatively scheduled for next spring.

X. THE MEETING WAS ADJOURNED BY ROSA MAGOS AT 1:17 PM.

AUTOMOTIVE TECHNOLOGY PROGRAM

California Education Code
Division 7, Part 48, Chapter 1, Article 1
78016. Review of program

(1) Meets a documented labor market demand.

Labor Market and Economic Analysis

AUTOMOTIVE

Most California employment in the automotive industry relates to selling and maintaining automobiles rather than manufacturing them. Industries that support California automobiles are motor vehicle and parts dealers, gasoline stations, and repair and maintenance facilities. The top 20 largest growth occupations in the automotive industry will grow by 18.7 percent (more than 50,000 jobs) between 2004 and 2014. the occupations vary considerably in preparation required by individuals seeking to enter them.

California industry projections dovetail consistently with the growing industries. The Automotive industry is been highlighted by the President's High Growth Job Training Initiative. (see table 2).

Table 2

California's High-Growth Industries

High-Growth Job Training Initiative Industries	California Regional Economies Focus Industries
Advanced Manufacturing	Manufacturing Value Chain
Automotive	
Biotechnology	Health Science and Services
Construction	Residential infrastructure
Geo-spatial	
Health Care	Health Science and Services
Hospitality	Community Infrastructure
Information Technology	
Retail	Specialty food, beverages and retail
Energy	Community infrastructure
Financial Services	
Transportation	Manufacturing-Logistics

The automotive industry has initiated efforts to standardized competencies and training for the mechanical occupations. The top skills used in the automotive industry's 20 top growth occupations are:

- Active learning,
- Active listening,
- Coordination,
- Critical thinking,
- Instructing,
- Judgment and decision making,
- Reading comprehension,
- Social perceptiveness,
- Speaking,
- Time management, and
- Troubleshooting.

POTENTIAL SHORTAGES IN CALIFORNIA FOR SELECTED OCCUPATIONS

Occupation	Program Completers (2003-04)	Average Annual Openings (2004-2014)	Projected 2004-2014 Growth	Employers Reporting Moderate to Much Difficulty Recruiting Experienced Workers (2005-06)*
Accountants and Auditors	4,312	5,330	Average	86%
Automotive Mechanics	3,254	3,790	Faster than average	87%
Carpenters	44	7,310	Faster than average	87%
Computer Software Engineers, Applications & Systems Software	1,665	7,600	Much faster than average	91%
Dental Hygienists	434	830	Much faster than average	N/A
Elementary School Teachers	1,532	8,300	Average	60%
Heating, Air Conditioning, and Refrigeration Mechanics and Install.	1,032	470	Much faster than average	N/A

(2) Does not represent unnecessary duplication of other manpower training programs in the area.

The only duplication on of the program in Imperial Valley is Central Union High School which imparts training in only four areas of the automobile repair.
The Automotive Program in Imperial Valley College imparts training in all eight areas of the Automotive Service Excellence (ASE) plus beginners and high performance courses.

(3) Is of demonstrated effectiveness as measured by the employment and completion success of its students.

As the Automotive Department continues to respond to local labor market needs, holds an Advisory Committee meeting every semester, this contribution is invaluable for the advancement of our program goals and the enhancement of training and educational opportunities for our students. Attach is a copy of agenda and minutes of the last two advisory committee meetings.

Following is a list from students employment from 9-18-2005 to 10-18-2006

#	Student Name	Employer	Position
1	Froy Valverde	Rogers and Rogers Toyota	Automotive Technician
2	Enrique Martinez	El Centro Ford Dealer	Auto Tech
3	Jesse Martinez	Direct Auto Plaza	Parts Counter
4	Yisbah Ramirez	Napa Auto Parts	Parts Counter
5	Mario Diaz	Enterprise car rental	Lot attendant
6	Marco Rodriguez	Calexico Texaco Lube	Technician
7	Vicente Ontiveros	Rines Y Llantas De America	Technician
8	Jesse Martinez	Direct Auto Plaza	Driver/Parts Consultant
9	Christian Vasquez	Desert Auto Plaza	Automotive Technician
10	Edgar Ortega	Americas Tires	Automotive Technician
11	Roqueo Ortega (replaced)	Imperial County Garage	Automotive Technician
12	Octavio Ballesteros	Lee tire Co.	Automotive Tech
13	Jose Ruiz	Calexico Unified School District	Maintenance Worker
14	Abraham Magallanes	International Auto Sales	Automotive Technician
15	Enrique Martinez	El Centro Motors	Automotive Advisor
16	Jose Santiago	Americas Tires	Automotive Technician
17	Frank Gonzalez	Desert Auto Plaza	Service Manager Automotive
18	Pia Villegas (replaced)	El Centro Motors	Driver
19	Ysbah, Ramirez	Napa Auto Parts	Parts Consultant/Driver
20	Alba Guizar	Carquest	Driver/Cashier
21	Ericka Aguilar	Carquest	Driver/Cashier
22	Ismael Becerra	Rogers and Rogers Toyota	Lot Attendant
23	Julian Garcia	Rogers and Rogers Nissan	Automotive Technician
24	Sergio Saldana	Enterprise Car Rental	Automotive Maintenance

25	Adrian Contreras	Rogers & Rogers Toyota	Automotive Technician
26	Willian Johnson	Enterprise Car Rental	Automotive Maintenance
27	Gorge Angeles	Rogers and Rogers Toyota	Automotive Technician
28	Jorgan Miles	Direct Auto Plaza	Electrical automotive Technician
29	Fuentes Carlos	G&G Automotive	Automotive Technician
30	Delgado Rafael (replaced)	G&G Automotive	Automotive Technician
31	Villagas Pia	Sears Automotive	Service Writer
32	Garcia, Richard	Rines y Llantas de America	Automotive Technician
33	Sanchez, Benjamin	Kragen Auto Parts	Parts Consulatant
34	Murillo, Oscar	Rines Y Llantas De America	Automotive Technician
35	Vallejo, Alma	Napa-Auto Parts	Parts rep/Cashier
36	Garcia, Julian	Pro Auto Smog	Automotive Technician
37	Guizar, Alba	Car Quest	Cashier
38	Aguilar, Erika	Car Quest	Cashier
39	Jaurequi, Jesus	Rines Y Llantas De America	Tire Installer/ Technician
40	Rean, Juan	Rines Y Llantas de America	Tire Installer/Technician
41	Rodrigues, Rigoberto	Rogers & Rogers Nissan	Detailer
42	Hernandez, Alberto	G & G Automotive	Service manager Automotive
43	Gonzalez, Carlos	Auto Zone	Parts Rep
44	Gonzalez, Katalina	Enterprise Rent-a-Car	Lot Attendant
45	Haro, Fernando	Brawley Beef Plant	Maintenance Helper
46	Angeles Gorge (replaced)	KIA Dealership	Technician
47	Lizarraga, Jose	Enterprise Rent-a-Car	Lot Attendant
48	Garcia, Julian	Brawley Beef Plant	Maintenance Helper
49	Delgado, Rafael	G&G Automotive	Technician
50	Garcia, Steven	G&G Automotive	Automotive Technician
51	Ortega, Roque	Pep-Boys Automotive	Technician
52	Hernandez, David	Sellers Petroleum	Lot Attendant
53	Gaytan, Hector	Enterprise Rent-a car	Sales Person
54	Gavilanes, hector	Enterprise Rent-a-Car	Lot Attendant
55	Garcia, Enrique	Enterprise Rent-a-Car	Lot Attendant
56	Gamboa Jose	Napa Auto Parts	Sales Person
57	Jimenez, Anthony	Napa Auto parts	Sales Person
58	Casillas, Pablo	Pep-Boys Automotive	Technician
59	Santiago, Romeo	Enterprise Rent-a-Car	Lot Attendant
60	Parra, Fernando	Auto Zone	Asst. Manager
61	Murillo, Oscar	Enterprise Rent-a-Car	Lot Attendant
62	Parra, Fernando	Brawley Beef	Maintenance Helper
63	Villegas, Pia	Enterprise Rent-a-car	Lot Attendant
64	Garibay, Manuel	Enterprise Rent-a-car	Lot Attendant

AUTOMOTIVE/AUTO BODY TECHNOLOGY
LOCAL PROGRAM ADVISORY COMMITTEE
IMPERIAL VALLEY COLLEGE

AGENDA
APRIL 18, 2007

El Centro Buffet
550 N. Imperial Ave.
El Centro, CA

Business/Industry Representatives

Marcos Aranda, Kragen Auto Parts	Felipe Magos, M&M Body Shop
Paul Boss, Direct Auto Plaza	Rafael Martinez, Pep Boys
George Bracamontes, Auto Zone	Alex Morles, Schaeffer's Specialized Lubricants
Felix Diaz, Carquest Auto Parts	Ernie Paleo, Lee Tire
Jim Duda, Desert Auto Plaza	Miguel Perez, Rogers and Rogers
Jesus Flores, Kennedy Tires	Eddie Robinson, El Centro Motors
Carlos Gerardo, Carquest Auto Parts	Hugo Rodriguez, Pep Boys
Gabriel Hernandez, Napa Auto Parts	Pete Salcedo, Imperial Valley Paint Venter
Javier Sanchez, El Centro Auto Body	

Imperial Valley College Representatives

Gonzalo Huerta, Dean of Instruction for Applied Sciences	Jose Perez, Automotive Technology Instructor
Jose Lopez, Industrial Technology Coordinator	Jose Plascencia, EOPS Counselor
Ricardo Pradis, Automotive Technology Instructor	Joe Espinoza, Student Employment Specialist
Ronnie Garrie, Automotive Technology Instructor	Frances Arce-Gomez, Secretary

I. Call to Order (R.Magos)

II. Welcome

III. Introductions

IV. Approval of Minutes

V. Program Status (J.Lopez)

VI. Input From Business/Industry

- A member may speak on items on the agenda or other matters of interest. This is an open meeting and anyone may speak or ask questions.

VII. Applied Science Expo (G. Huerta)

VIII. Other

IX. Next Meeting

X. Adjourn

IMPERIAL VALLEY COLLEGE
INDUSTRIAL TECHNOLOGY

AUTOMOTIVE/AUTO BODY TECHNOLOGY ADVISORY COMMITTEE

UNADOPTED MINUTES

Meeting of April 18, 2007

Those in attendance were as follows:

BUSINESS/INDUSTRY REPRESENTATIVES

Marco F. Aranda, Kragen Auto Parts
Jim Duda, Desert Auto Plaza
Warren Ecker, Desert Auto Plaza
Felipe D. Magos, M&M Paint Body Shop
Rosie Magos, M&M Paint and Body Shop
Jim Martin, Desert Auto Plaza
Miguel Perez, Rogers and Rogers Toyota
Ron Shane, El Centro School District
Charles Veretta, Direct Auto Plaza
Scott Young, Desert Auto Plaza

IMPERIAL VALLEY COLLEGE REPRESENTATIVES

Gonzalo Huerta, Dean of Instruction for Applied Sciences
Jose Lopez, Industrial Technology Coordinator
Frank Miranda, HVAC Instructor
Ricardo Pradis, Automotive Technology Instructor

I. MEETING CALLED TO ORDER BY GONZALO HUERTA AT 12:30 PM

II. WELCOME

Gonzalo Huerta welcomed the members of the committee.

III . INTRODUCTIONS

All members were introduced.

IV. APPROVAL OF MINUES

Minutes were approved as submitted.

V. PROGRAM STATUS (J.LOPEZ)

Jose Lopez reported that Imperial Valley College will be hosting the ASE Exam in May. He stated that there will be over 150 technicians taking exams.

Mr. Lopez also informed the committee that a computer lab is available in the Automotive Technology to help technicians prepare for the ASE Exam.

Ricardo Pradis reported that the Automotive Department currently teaches the eight areas of the ASE exams. Mr. Pradis stated that the ASE exams are difficult.

VI. INPUT FROM BUSINESS/INDUSTRY

Jim Duda would like Imperial Valley College to be NATEF Certified. Mr. Duda would like to hire technicians that are from the valley. He would also like students to get dealership experience while studying.

Ricardo Pradis emphasized that the NATEF process is very time consuming. The NATEF process has many details that need to be addressed.

Some of the requirements needed for the NATEF process is the evaluation of the Automotive facility, tools and curriculum. The purpose of the evaluation is to meet several NATEF standards.

It was agreed that the evaluation would be conducted in the Fall of 2007.

Ricardo Pradis will be making a PowerPoint presentation on the NATEF process in June.

The I-Car certification process was discussed.

VII. OTHER

Ron Shane offered his assistance for the NATEF certification process.

VIII. NEXT MEETING

The next meeting has tentatively been scheduled for November 2007.

IX. THE MEETING WAS ADJOURNED BY GONZALO HUERTA AT 1:30 PM.

AUTOMOTIVE/AUTO BODY TECHNOLOGY
LOCAL PROGRAM ADVISORY COMMITTEE
IMPERIAL VALLEY COLLEGE

AGENDA
NOVEMBER 17, 2006

Golden Corral
2018 N. Imperial
El Centro, CA

Business/Industry Representatives

Marcos Aranda, Kragen Auto Parts	Felipe Magos, M&M Body Shop
Paul Boss, Direct Auto Plaza	Rafael Martinez, Pep Boys
George Bracamontes, Auto Zone	Alex Morles, Schaeffer's Specialized Lubricants
Felix Diaz, Carquest Auto Parts	Ernie Paleo, Lee Tire
Jim Duda, Desert Auto Plaza	Miguel Perez, Rogers and Rogers
Jesus Flores, Kennedy Tires	Eddie Robinson, El Centro Motors
Carlos Gerardo, Carquest Auto Parts	Hugo Rodriguez, Pep Boys
Gabriel Hernandez, Napa Auto Parts	Pete Salcedo, Imperial Valley Paint Venter
Javier Sanchez, El Centro Auto Body	

Imperial Valley College Representatives

Gonzalo Huerta, Dean of Instruction for Applied Sciences	Jose Perez, Automotive Technology Instructor
Jose Lopez, Industrial Technology Coordinator	Jose Plascencia, EOPS Counselor
Ricardo Pradis, Automotive Technology Instructor	Joe Espinoza, Student Employment Specialist
Ronnie Garrie, Automotive Technology Instructor	Frances Arce-Gomez, Secretary

I. Call to Order

II. Welcome

III. Introductions

IV. Role of the Advisory Committee

V. Program Status

VI. Input From Business/Industry

VII. Other

VIII. Next Meeting

IX. Adjourn

IMPERIAL VALLEY COLLEGE
INDUSTRIAL TECHNOLOGY

AUTOMOTIVE/AUTO BODY TECHNOLOGY ADVISORY COMMITTEE

UNADOPTED MINUTES

Meeting of November 17, 2006

Those in attendance were as follows:

BUSINESS/INDUSTRY REPRESENTATIVES

Gabe Borboa, Carquest
Dave Forman, Rogers and Rogers Toyota
Carlos Gerardo, Carquest Auto Parts
Francisco Gonzalez, Direct Auto Plaza
Bill Hahn, Kragen Auto Parts
Felipe Magos, M&M Paint and Body Shop
Rosie Magos, M&M Paint and Body Shop
Rafael Martinez, Pep Boys
Andrew Moore, Rogers and Rogers Toyota
Ernest Paleo, Lee Tire Company
Miguel Perez, Rogers and Rogers Toyota
Hugo Rodriguez, Pep Boys

IMPERIAL VALLEY COLLEGE REPRESENTATIVES

Gonzalo Huerta, Dean of Instruction for Applied Sciences
Jose Lopez, Industrial Technology Coordinator
Ricardo Pradis, Automotive Technology Instructor
Jose Perez, Automotive Technology Instructor
Jose Plascencia, EOPS Counselor
Frances Arce-Gomez, Industrial Technology Secretary
Patricia Robles, Secretary for Applied Sciences
Jesse Ruelas, Tool Room Technician
Joe Espinoza, Student Employment Specialist
Jose Velasquez, Building and Construction Instructor

I. MEETING CALLED TO ORDER BY GONZALO HUERTA AT 12:25 PM

II. WELCOME

Gonzalo Huerta welcomed the members of the committee.

III. INTRODUCTIONS

All members were introduced.

IV. ROLE OF THE ADVISORY COMMITTEE

Copies of the updated advisory committee handbooks were distributed. Some of assistance the committee provides is the following:

- Input for new courses
- Input for curriculum modifications
- Criteria for employable student
- Insight of Industry needs

- Equipment discount
- A chair that is from industry
- Willing to recruit new members

V. PROGRAM STATUS

Ricardo Pradis distributed a flyer that listed the current automotive courses being offered at Imperial Valley College.

Mr. Pradis also reported that IVC is trying to get NATEF certified. Mr. Pradis stated that he would talk in more detail about NATEF the next meeting.

Mr. Pradis is currently working on developing new courses.

Jose Lopez emphasized the main focus is to get students ASE certified. Students that are ASE certified are more employable. Imperial Valley College currently hosts the ASE Exam.

Jose Lopez informed the committee that the automotive program and auto body program have an average of 180 students combined in a semester.

Gonzalo Huerta informed committee that industrial technology courses have standards that need to be met. Students can use facility after hours with the proper supervision.

Gonzalo Huerta reported that the Auto Body Program is more structured. Hugo Mendez the current auto body instructor is I-Car certified.

VI. INPUT FROM BUSINESS/INDUSTRY

The committee recommends that the title for the auto body and repair major/certificate name change to automotive collision repair.

Carquest Auto Parts has direct line for students to look up parts and price availability online.

Rafael Martinez from Pep Boys would like the Industrial Technology Expo to be held late afternoon.

VII. OTHER

Rosie Magos from M&M Body Shop volunteered to be chair.

Carlos Gerardo from Carquest Auto Parts volunteered to be vice-chair.

VIII. NEXT MEETING

The next meeting has tentatively been scheduled for March 21, 2007.

IX. THE MEETING WAS ADJOURNED BY GONZALO HUERTA AT 1:15 PM.

AIR CONDITIONING TECHNOLOGY
& REFRIGERATION

California Education Code
2000 Desktop Edition

Division 7, Part 48, Chapter 1, Article 1.
S 78016. Review of program; termination

(a) Every vocational or occupational training program offered by a community college district shall be reviewed every two years by the governing board of the district to ensure that each program, as demonstrated by the California Occupational Information System, including the State-Local Cooperative Labor Market Information Program not available in the labor market area, other available sources of labor market information, does all of the following:

1. The estimated occupational projections of California State employment for 2004-2014 projected years is employment estimated 17,500, projected 22,200. Employment change 4,700, 26.9 % increase, to increase much faster that average – employment out look is good.
2. Does not represent unnecessary duplication of other manpower training programs in the area. Imperial Valley is one of two training facilities for Air Conditioning in the Imperial Valley the other being Imperial Valley Regional Occupational Program with teaches high school level students.

3. Demonstrated effectiveness as measured by employment and completion success of its students. The Air Conditioning program has two populations of students, young students entering a career and older students with jobs coming back to get additional training. 70% of students are employed. The program has 70% completers;
Fredy Luna, Sam Colon- Pan Air, Carlos Sandoval-Southwest High, Gabriel Parsons- Cool Breeze, Hugo Garcia-Plazola, Carlos Cuevas-Locke A/C, Armando Flores- Locke A/C, Cameron Leckhnor-Locke A/C.

(b) Any program that does not meet the requirements of subdivision (a) and the standards promulgated by the governing board shall be terminated within one year.

(c) The review process required by the section shall include the review and comments by the local Private Industray Council established pursuant to Division 8 (commencing with Section 15000) of the Unemployment Insurance Code, which review and comments shall occur prior to any decision by the appropriate governing body.

(d) This section shall apply to each program commenced subsequent to July 28, 1983

(e) A written summary of the findings of each review shall be made available to the public. (Added by stats. 1997, c. 977, p. 3347 S 8, eff. Sept. 22, 1979. Amended by Stats. 1992, c. 1329, p. 4906, S 5; Stats. 1983, c. 537, S 4, eff. July 28, 1983; Stats. 1990, c. 1667 (S.B. 1033), S 4, 5; Stats. 1998, c. 365 (A.B. 2214), S 2.)

Imperial Valley College
Fall 2007
Full Term
15 OCT 2007

Census Date: 04 SEP 2007

CRN	SUBJ	CRSE		CREDITS	DIVISION
10604	ACR	101	**AIR COND REFRIG SYSTEMS**	3.00	ITEC

INSTRUCTOR(S) - (P)rimary	TYPE	DAYS	TIME	BUILDING	ROOM
Miranda, Frank (P)	Lecture/Discussion	R	0630-0820pm	1100	1101
	Lecture/Discussion	S	0800-1110am	1100	1101

Class Start Date: 20 AUG 2007 **Last Date to Add:** 01 SEP 2007
Class End Date: 08 DEC 2007 **Deadline to drop WITH "W":** 09 NOV 2007

	ID	Student Name												Drop Date	Last Attend	Fin Grd
1	G00373	r														
2	G00350		SELF EMPLOYED MAINT													
3	G00635		LOCKE A/C													
4	G00617		PAYLES SHOE													
5	G00310		CAL TRANS													
6	G00633															
7	G00386		TEXACO LUBE													
8	G00330		HOUSING AUTHORITY MAINT													
9	G00376		EL CENTRO HIGH SCHOOL MAINT													
10	G00702															
11	G00010	r														
12	G00634															
13	G00368		APT REMODEL SELF EMPLOY													
14	G00621															
15	G00320		CENTINELA PRISON MAINT													
16	G00703		HOME DEPOT APPLIANCE													
17	G00372		HOUSING AUTHORITY MAINT													
18	G00357															
19	G00325		CENTINELA PRISON													
20	G0036															
21	G0032		SELF EMPLOYED													
22	G0070	her														
23	G0062															
24																
25																

Imperial Valley College
Fall 2007
Full Term
15 OCT 2007

Census Date: 04 SEP 2007

CRN	SUBJ	CRSE		CREDITS	DIVISION
10598	ACR	102	**RESIDENTIAL AIR COND SYSTEMS**	3.00	ITEC

INSTRUCTOR(S) - (P)rimary	TYPE	DAYS	TIME	BUILDING	ROOM
Miranda, Frank (P)	Lecture/Discussion	M	0835-1025am	1100	1101
	Lecture/Discussion	W	0835-1145am	1100	1101

Class Start Date: 20 AUG 2007 **Last Date to Add:** 01 SEP 2007
Class End Date: 08 DEC 2007 **Deadline to drop WITH "W":** 09 NOV 2007

															Drop Date	Last Attend	Fin Grd
	ID																
1	G0063			LAWN MAINT													
2	G0062																
3	G0037			CHINA PALACE REST													
4	G006																
5	G0030			PLAZOLA A/C													
6	G000		sar														
7	G006			SELF EMPLOYED													
8	G007																
9	G007																
10	G007																
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

Instructor's Signature

Imperial Valley College
Fall 2007
Full Term
15 OCT 2007

Census Date: 04 SEP 2007

CRN	SUBJ	CRSE		CREDITS	DIVISION
10607	ACR	102	**RESIDENTIAL AIR COND SYSTEMS**	3.00	ITEC

INSTRUCTOR(S) - (P)rimary	TYPE	DAYS	TIME	BUILDING	ROOM
Miranda, Frank (P)	Lecture/Discussion	T	0630-0820pm	1100	1101
	Lecture/Discussion	W	0630-0940pm	1100	1101

Class Start Date: 20 AUG 2007 **Last Date to Add:** 01 SEP 2007
Class End Date: 08 DEC 2007 **Deadline to drop WITH "W":** 09 NOV 2007

	ID	Student Name												Drop Date	Last Attend	Fin Grd
1	G003	[redacted]														
2	G006	[redacted]														
3	G006	[redacted]														
4	G003	[redacted]														
5	G006	[redacted]														
6	G003	[redacted]														
7	G007	[redacted]														
8	G006	[redacted]														
9	G006	[redacted]														
10	G003	[redacted]														
11	G006	[redacted]														
12	G003	[redacted]														
13	G003	[redacted]														
14	G007	[redacted]														
15	G006	[redacted]														
16	G007	[redacted]														
17																
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20																
21																
22																
23																
24																
25																

Imperial Valley College
Fall 2007
Full Term
15 OCT 2007

Census Date: 04 SEP 2007

CRN	SUBJ	CRSE		CREDITS	DIVISION
10599	ACR	103	**AIR COND ELEC CIR & CNTRLS**	3.00	ITEC

INSTRUCTOR(S) - (P)rimary	TYPE	DAYS	TIME	BUILDING	ROOM
Miranda, Frank (P)	Lecture/Discussion	M	0130-0320pm	1100	1101
	Lecture/Discussion	W	0130-0410pm	1100	1101

Class Start Date: 20 AUG 2007 **Last Date to Add:** 01 SEP 2007
Class End Date: 08 DEC 2007 **Deadline to drop WITH "W":** 09 NOV 2007

														Drop Date	Last Attend	Fin Grd
	I															
1	G003		CENTINELA PRISON													
2	G003															
3	G003		I.V.C. MAINT													
4	G000	sar														
5	G003		SELF EMPLOYED													
6	G007															
7	G003		COLMENA MKT BRAWLEY													
8	G007															
9	G007	pher														
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																

Instructor's Signature

Imperial Valley College
Fall 2007
Full Term
15 OCT 2007

Census Date: 04 SEP 2007

CRN	SUBJ	CRSE		CREDITS	DIVISION
10602	ACR	104	**AIR CONDITIONING HEATING SYS**	3.00	ITEC

INSTRUCTOR(S) - (P)rimary	TYPE	DAYS	TIME	BUILDING	ROOM
Miranda, Frank (P)	Lecture/Discussion	R	0835-1145am	1100	1101
	Lecture/Discussion	T	0835-1025am	1100	1101

Class Start Date: 20 AUG 2007 **Last Date to Add:** 01 SEP 2007
Class End Date: 08 DEC 2007 **Deadline to drop WITH "W":** 09 NOV 2007

	ID	Student Name												Drop Date	Last Attend	Fin Grd
1	G003		CONTRUCTION													
2	G003	l														
3	G006															
4	G006	o, Miguel	HOME TOWN BUFFET MAINT													
5	G000	esar														
6	G003		HOLTVILLE SCHOOL MAINT													
7	G006		COOL BREEZE A/C													
8	G00		RITE AIDE													
9	G007	opher														
10	G007															
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

Instructor's Signature

Occupation Profile

Change Occupation | Save F

Pr

Heating, Air Conditioning, and Refrigeration Mecha
in California

Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves.

View a Career Video for this occupation from America's Career InfoNet (requires Windows Media Player)

Occupational Wages

Area	Year	Period	Hourly Mean	Hourly by Percentile 25th	Median
California	2007	1st Qtr	$22.21	$16.25	$21.75

Get More Info (Data Library)

Occupational Projections of Employment (also called "Outlook" or "Demand")

Area	Estimated Year-Projected Year	Employment Estimated	Projected	Employment Change Number	Percent	Annual Av
California	2004 - 2014	17,500	22,200	4,700	26.9	

Get More Info (Data Library)

Job Openings from JobCentral National Labor Exchange

Enter a Zip Code | Find a Zip code in California

Within 25 miles of Zip Code.

Search Jobs

Possible Licenses Required and Issuing Authority

License Title	License Authority
Heating, Ventilating and Air-Conditioning Contractor	Department of Consumer Affairs, Contractors State License B 9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900
Refrigeration Contractor	Department of Consumer Affairs, Contractors State License B 9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900
Solar Contractor	Department of Consumer Affairs, Contractors State License B 9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900

Top 15 Industries Employing This Occupation (click on Industry Title to View Employers)

Industry Title	Number of Employers in State of California	Perc Employment for Occupatio
Building Equipment Contractors	26,628	

Commercial Machinery Repair/Maintenance	2,472
Hardware & Plumbing Merchant Wholesalers	3,226
Elementary and Secondary Schools	16,247
Electronics and Appliance Stores	19,070
Employment Services	7,273
Colleges and Universities	1,466
Management of Companies and Enterprises	530
Building Material and Supplies Dealers	14,238
Facilities Support Services	94
Management & Technical Consulting Svc	21,586
Junior Colleges	104
Home Furnishings Stores	8,816

Training Programs (click on Title for more information)

Program Title

Heating, Air Conditioning, Ventilation & Refrigeration Maint

ONET Skills and Tasks

Skill	Importance	Compe
Installation	97	
Operation Monitoring	77	
Problem Identification	80	
Repairing	97	
Testing	80	
Troubleshooting	83	

Tasks

Adjusts system controls to setting recommended by manufacturer to balance system, using hand tools.
Assembles, positions, and mounts heating or cooling equipment, following blueprints.
Cuts and drills holes in floors, walls, and roof to install equipment, using power saws and drills.
Disassembles system and cleans and oils parts.
Discusses heating-cooling system malfunctions with users to isolate problems or to verify malfunctions have been correc

Related Links

Local Area Profile
Compare Occupations
View Similar Occupations

Related Articles and Publications

Data Notes and Sources, 10/4/2007
Labor Market and Economic Analysis 2007 , 5/11/2007
On-line Job Opening Systems, 6/29/2007
Nontraditional Employment for Women, 3/22/2007
New Career Resources - Info on Good-Paying, Hands-On Jobs, 1/11/2007

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Training Program Summary

Back | Save F

Heating, Air Conditioning, Ventilation & Refrigeration Maint

Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician (HAC, HACR, HVAC, HVA program that prepares individuals to apply technical knowledge and skills to repair, install, service and maintain the oper condition of heating, air condition ing, and refrigeration systems. Includes instruction in diagnostic techniques, the use of equipment and the principles of mechanics, electricity, and electronics as they relate to the repair of heating, air conditio refrigeration systems.

Training Providers for Heating, Air Conditioning, Ventilation & Refrigeration Maint in California

Provider Name	Program Name
WyoTech	Heating, Air Conditioning, Ventilation & Refrigerati
Fresno Area Plumbers, Pipe and Refrigeration	Heating, Air Conditioning, Ventilation & Refrigerati
L.A. Sheet Metal Workers J.A.T.C.	Heating, Air Conditioning, Ventilation & Refrigerati
U.A. Local 38 Plumbing and Pipe Fitting Industry - Santa Rosa	Heating, Air Conditioning, Ventilation & Refrigerati
Palomar Community College District	Heating, Air Conditioning, Ventilation & Refrigerati
Sheet Metal Training School Local 104, N	Heating, Air Conditioning, Ventilation & Refrigerati
Harbor Occupational Center	Heating, Air Conditioning, Ventilation & Refrigerati
Tri-Community Adult Education	Heating, Air Conditioning, Ventilation & Refrigerati
Sacramento Valley Sheet Metal Workers Apprenticeship &Training	Heating, Air Conditioning, Ventilation & Refrigerati
North Orange County ROP - Acacia Facility	Heating, Air Conditioning, Ventilation & Refrigerati
North Orange County ROP - East Ball Facility	Heating, Air Conditioning, Ventilation & Refrigerati
Orange Coast College	Heating, Air Conditioning, Ventilation & Refrigerati
Practical Schools	Heating, Air Conditioning, Ventilation & Refrigerati
Brownson Technical School	Heating, Air Conditioning, Ventilation & Refrigerati
Charles A Jones Skills & Business Education Center	Heating, Air Conditioning, Ventilation & Refrigerati
Center for Employment Training	Heating, Air Conditioning, Ventilation & Refrigerati
San Diego Continuing Education	Heating, Air Conditioning, Ventilation & Refrigerati
City College of San Francisco	Heating, Air Conditioning, Ventilation & Refrigerati
U.A. Local 38 Plumbing and Pipe Fitting Industry - San Francisco	Heating, Air Conditioning, Ventilation & Refrigerati
San Diego County ROP SDCOE/JCCS	Heating, Air Conditioning, Ventilation & Refrigerati
Pipe Trades Training Center	Heating, Air Conditioning, Ventilation & Refrigerati
Specialty HVAC Institute	Heating, Air Conditioning, Ventilation & Refrigerati
HVAC Institute	Heating, Air Conditioning, Ventilation & Refrigerati
San Joaquin Valley College	Heating, Air Conditioning, Ventilation & Refrigerati
North Orange County ROP - Main office	Heating, Air Conditioning, Ventilation & Refrigerati
Imperial Valley Regional Occupational Program	Heating, Air Conditioning, Ventilation & Refrigerati
Sacramento County Regional Occupational Group	Heating, Air Conditioning, Ventilation & Refrigerati
Plumbers & Pipe Fitters JAC	Heating, Air Conditioning, Ventilation & Refrigerati
Pipe Trades	Heating, Air Conditioning, Ventilation & Refrigerati

Occupations for Heating, Air Conditioning, Ventilation & Refrigeration Maint in California

Occupation Title	Estimated Year - Projected Year	Employment Estimated	Employment Projected	Employment Change Number	Employment Change Percent	Minimum Educational Requirement
Construction and Building Inspectors	2004 - 2014	11,000	13,800	2,800	25.5	Work experience (in relate occupation)
Electric Motor, Power Tool, and Related Repairers	2004 - 2014	1,500	1,700	200	13.3	Post secondary vocationa training
Security and Fire Alarm Systems Installers	2004 - 2014	4,900	6,400	1,500	30.6	Post secondary vocationa training
Automotive Service Technicians and Mechanics	2004 - 2014	80,000	96,600	16,600	20.7	Post secondary vocationa training
Motorboat Mechanics	2004 - 2014	1,800	2,200	400	22.2	Long-term on-the-job training (> 12 months)
Heating, Air Conditioning, and Refrigeration Mecha	2004 - 2014	17,500	22,200	4,700	26.9	Long-term on-the-job training (> 12 months)

EDD Employment Development Department State of California

Home Appliance Repairers	2004 - 2014	5,400	5,900	500	9.3	Long-term on-the-job training (> 12 months)
Industrial Machinery Mechanics	2004 - 2014	12,400	13,600	1,200	9.7	Long-term on-the-job training (> 12 months)
Coin, Vending, and Amusement Machine Servicers and	2004 - 2014	3,500	3,700	200	5.7	Moderate-term on-the-job training (1-12 months)
Helpers--Installation, Maint., & Repair Worers	2004 - 2014	15,500	19,000	3,500	22.6	Short-term on-the-job training
Installation, Maintenance & Repair Workers, Other	2004 - 2014	21,700	25,600	3,900	18.0	Moderate-term on-the-job training (1-12 months)
Stationary Engineers and Boiler Operators	2004 - 2014	5,300	5,800	500	9.4	Long-term on-the-job training (> 12 months)
Plant and System Operators, All Other	2004 - 2014	2,800	3,200	400	14.3	Long-term on-the-job training (> 12 months)
Inspectors, Testers, Sorters, Samplers & Weighers	2004 - 2014	53,300	56,600	3,300	6.2	Moderate-term on-the-job training (1-12 months)

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Imperial County Profile

About this area:
Imperial County is located in the southeast corner of California. Surrounding counties include San Diego on the west and to the north. The Colorado River forms the eastern boundary of Imperial and the Arizona-California border. Imperial's sou border is shared with Mexico. The major east-west thoroughfare is Inter-state 8, which begins in San Diego and travels e Arizona; state routes 78 and 111 also figure importantly in the county's transportation system.

Employment and Wages

Unemployment Rate and Labor Force (Not Seasonally Adjusted)

Area	Year	Time Period	Labor Force	No. of Employed	No. of Unemployed	Unemplo
Imperial County	2007	Aug	69,600	55,200	14,400	

More Areas Historical Data Get More Info (Data Library)

Employment by Industry (Not Seasonally Adjusted)

Year	Time Period	CES Industry Title
2007	Aug	Total Wage and Salary
2007	Aug	Total Nonfarm
2007	Aug	Service Providing
2007	Aug	Total Private
2007	Aug	Residual-Private Services Providing

More Historical Data Get More Info (Data Library)

Occupations with Fastest Job Growth (% change)

Occupation	Estimated Year - Projected Year	Employment Estimated	Employment Projected	Employmen Number
Carpenters	2004 - 2014	90	140	50
Pharmacists	2004 - 2014	200	290	90
Cement Masons and Concrete Finishers	2004 - 2014	180	260	80
Heating, Air Conditioning, and Refrigeration Mecha	2004 - 2014	50	70	20
Detectives and Criminal Investigators	2004 - 2014	80	110	30

More Get More Info (Data Library)

Projections of Employment by Industry

High Wage Occupations

Occupation	Year	Time Period	Hourly Mean	Hourly by Percen 25th	Median
Family and General Practitioners	2007	1st Qtr	$67.62	$54.26	$62.74
Chief Executives	2007	1st Qtr	$65.44	$51.03	$62.80
Pharmacists	2007	1st Qtr	$55.40	$50.29	$53.83
Construction Managers	2007	1st Qtr	$50.39	$38.65	$46.64
Dentists, General	2007	1st Qtr	$45.80	$33.83	$52.56

More Get More Info (Data Library)

Data for Imperial County is not available. Data for El Centro MSA has been displayed for High Wage Occupations

Economic Indicators

Building Permits (US Census Bureau)

Type of Permit	Year	Time Period	No. of Permits	
Multi-Family	2006	Annual	168	$

Single Family	2006	Annual	1,613	$27
Total all types construction permits	2006	Annual	1,781	$28

More Areas Historical Data

Consumer Price Index (US BLS & Calif. DIR)

Area	Consumer Price Index Time Period	2006	Time Period	2005
United States	Annual	201.6	Annual	195.3
California	Annual	210.5	Annual	202.6

Historical Data Get More Info (Data Library)

Data for Imperial County is not available. Data for California has been displayed for Consumer Price Index (US BLS & Calif. DIR)

Median Price of Existing Homes Sold (Calif. Assoc. of Realtors)

Year	Time Period	Type	Median Price
2007	Aug	Median Price of Homes Sold	$588,970

More Areas Historical Data Data from the California Association of Realtors

Data for Imperial County is not available. Data for California has been displayed for Median Price of Existing Homes Sold (Calif. Assoc. of

State Revenues by Source

Tax Type Description	Year	Time Period	Ta
Alcoholic Beverage Taxes and Fees	2005	Annual	$31
Bank and Corporation (Income) Taxes	2005	Annual	$10,31
Cigarette Tax	2005	Annual	$1,08
Horse Racing (Parimutuel) License Fees	2005	Annual	$3
Estate, Inheritance and Gift Taxes	2005	Annual	$

More Areas Historical Data

Data for Imperial County is not available. Data for California has been displayed for State Revenues by Source

Taxable Sales (Calif. Board of Equalization)

Year	Time Period	Sales Type Description	
2005	Annual	Retail	$2,0(

More Areas Historical Data

Population and Census Data

Population

Area	Year	Time Period	Source
Imperial County	2007	Annual	California Dept of Finance

More Areas Historical Data Get More Info (Data Library)

Measures of Income

Income Type	Year	Time Period	Income
Per Capita Personal Income - BEA	2004	Annual	$21,794
Total Personal Income - BEA	2004	Annual	$3,320,185,000

More Areas Historical Data Get More Info (Data Library)

County-to-County Commute Patterns (US Census Bureau)

Year	Time Period	Area of Residence	Area of WorkPlace	Number
2000	Census	Imperial County , CA	Imperial County , CA	
2000	Census	Yuma County , AZ	Imperial County , CA	
2000	Census	Imperial County , CA	Yuma County , AZ	
2000	Census	San Diego County , CA	Imperial County , CA	
2000	Census	Imperial County , CA	Riverside County , CA	

More Historical Data

Job Openings & Training Providers

Job Openings from JobCentral National Labor Exchange

Job Openings

Training Providers in Area

[Top]

Provider Name	Provider Type	Location
Campesinos Unidos, Inc.	Apprenticeship, Business, Career, & Tech Schools	Brawley,CA
SER - Jobs for Progress	Apprenticeship, Business, Career, & Tech Schools	El Centro,CA
E R A School of Real Estate	Apprenticeship, Business, Career, & Tech Schools	El Centro,CA
Center for Employment Training (CET)	Apprenticeship, Business, Career, & Tech Schools	El Centro,CA
H & R Block Income Tax School - Brawley	Apprenticeship, Business, Career, & Tech Schools	Brawley,CA

More

Related Links

View Employers By Occupation
View Employers By Industry
Local Area Comparisons

Related Articles and Publications

Data Notes and Sources, 10/4/2007
County to County Commute Maps, 11/1/2006
Labor Market Information Web Sites Across the Nation , 5/15/2007
Methods for Labor Force Estimates, 7/18/2006
New Career Resources - Info on Good-Paying, Hands-On Jobs, 1/11/2007

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Table 7

POTENTIAL SHORTAGES IN CALIFORNIA FOR SELECTED OCCUPATIONS				
Occupation	**Program Completers (2003-04)**	**Average Annual Openings (2004-2014)**	**Projected 2004-2014 Growth**	**Employers Reporting Moderate to Much Difficulty Recruiting Experienced Workers (2005-06)***
Accountants and Auditors	4,312	5,330	Average	86%
Automotive Mechanics	3,254	3,790	Faster than average	87%
Carpenters	44	7,310	Faster than average	87%
Computer Software Engineers, Applications & Systems Software	1,665	7,600	Much faster than average	91%
Dental Hygienists	434	830	Much faster than average	N/A
Elementary School Teachers	1,532	8,300	Average	60%
Heating, Air Conditioning, and Refrigeration Mechanics and Install.	1,032	470	Much faster than average	N/A
Home Health Aides	83	1,970	Much faster than average	96%

California Education Code

2007

Division 7, Part 48, Chapter1, Article 1
Building Construction Technology

Review of Program

1). The building construction technology program started in 2005 due to a growing demand in the construction trades. Currently the demand for skilled trades in the construction area is not as high as it was in 2005, due to a slowing trend in residential construction, but commercial construction has remained steady. Two weeks ago a group of local contractors were asked to fill out an employment survey. When they were asked how many employees they were going to hire within the next three years there answers were: 2, 2, 2, 3, 5. When they were asked their view of the current job marked they answered: steady, declining, growing at a normal pace, declining, growing at a normal pace. In California the projection for construction managers from 2004-2014 is estimated at 35,400 and the projected 41,100 giving a total number of employment openings of 5,700 which is a 16.1employment change percent. The annual average openings are 1,210. The hourly mean for this occupation is $45.77. For construction laborer the annual average openings are 3,140 with an hourly mean of $16.77. For carpenters the annual average openings are 7,310 with an hourly mean of $23.91. For all other construction and related workers the annual average openings are 430 and the hourly mean is $ 20.01. These numbers were gathered from the California occupation profiles for 2004-2014.

2). The Imperial Valley College Building Construction Trades program does not duplicate any other programs offered in the community. This program currently offers three certificates: Construction management certificate, Masonry certificate and Carpentry certificate. Other community programs such as CTE only offer Building Maintenance trainings. IVROP offer carpentry classes and general contracting in the local high schools and we are trying to establish articulation with them so we can enroll their high school graduates in our various certificate programs.

3). Being that our program is fairly new data from our current students is still being collected and studied to determine the effectiveness of our program. From personal recognition about eight students have completed more than one certificate since the program started and currently working in that field or pursuing more education in that field. This semester there are about 25 new students that started the program.

Occupation Profile

Change Occupation | Save Results

Printer Version

Construction Laborers
in California

Perform tasks involving physical labor at building, highway, and heavy construction projects, tunnel and shaft excavations, and demolition sites. May operate hand and power tools of all types: air hammers, earth tampers, cement mixers, small mechanical hoists, surveying and measuring equipment, and a variety of other equipment and instruments. May clean and prepare sites, dig trenches, set braces to support the sides of excavations, erect scaffolding, clean up rubble and debris, and remove asbestos, lead, and other hazardous waste materials. May assist other craft workers. Exclude construction laborers who primarily assist a particular craft worker, and classify them under "Helpers, Construction Trades" (47-3011 through 47-3019).

View a Career Video for this occupation from America's Career InfoNet (requires Windows Media Player)

Occupational Wages [Top]

Area	Year	Period	Hourly Mean	Hourly by Percentile 25th	Median	75th
California	2007	1st Qtr	$10.77	$11.76	$15.22	$21.23

Get More Info (Data Library)

Occupational Projections of Employment (also called "Outlook" or "Demand") [Top]

Area	Estimated Year-Projected Year	Employment Estimated	Projected	Employment Change Number	Percent	Annual Avg Openings
California	2004 - 2014	130,200	144,300	14,100	10.8	3,140

Get More Info (Data Library)

Job Openings from JobCentral National Labor Exchange [Top]

Enter a Zip Code

Find a Zip code in California

Within 25 miles of Zip Code.

Search Jobs

Possible Licenses Required and Issuing Authority [Top]

License Title	License Authority
Building Moving/Demolition Contractor	Department of Consumer Affairs, Contractors State License Board 9821 Business Park Drive Sacramento, CA 95827-

Awnings Specialty Contractor	Phone: 916-255-3900 Department of Consumer Affairs, Contractors State License Board 9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900
Pool and Spa Maintenance Specialty Contractor	Department of Consumer Affairs, Contractors State License Board 9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900
Scaffolding Specialty Contractor	Department of Consumer Affairs, Contractors State License Board 9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900
Trenching Specialty Contractor	Department of Consumer Affairs, Contractors State License Board 9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900
Construction Cleanup Specialty Contractor	Department of Consumer Affairs, Contractors State License Board 9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900

[illegible] Employers)

[Top]

Industry Title	Number of Employers in State of California	Percent of Total Employment for Occupation in State of California
Residential Building Construction	14,741	17.6%
Other Specialty Trade Contractors	12,114	14.3%
Building Foundation/Exterior Contractors	11,229	11.3%
Nonresidential Building Construction	22,508	8.4%
Highway, Street, and Bridge Construction	2,490	8.0%
Building Finishing Contractors	[illegible]	[illegible]
Utility System Construction	1,813	6.9%
Employment Services	7,273	[illegible]
Building Equipment Contractors	28,828	3.7%
Other Heavy Construction	3,074	2.2%
Other Wood Product Manufacturing	981	1.7%
Architectural and Engineering Services	24,148	0.7%
Services to Buildings and Dwellings	22,335	1.7%
Land Subdivision	3,533	0.6%
Management of Companies and Enterprises	540	1.4%

Data for Training Programs not available.

Data for Skills not available.

Tasks

Applies caulking compounds by hand or with caulking gun to seal crevices.
Builds and positions forms for pouring concrete and dismantles forms after use, using saws, hammers, nails, or screws.
Cleans construction site to eliminate possible hazards.
Uses dikonos and level gage to grade specifications, using pick and shovel.

Erects and disassembles scaffolding, shoring, braces, and other temporary structures.

Related Links
Local Area Profile
Compare Occupations
View Similar Occupations

Related Articles and Publications
Data Notes and Sources, 10/4/2007
Labor Market and Economic Analysis 2007 , 5/11/2007
On-line Job Opening Systems, 6/29/2007
Nontraditional Employment for Women, 3/22/2007
New Career Resources - Info on Good-Paying, Hands-On Jobs, 1/11/2007

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Occupation Profile

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Construction Managers
in California

Plan, direct, coordinate, or budget, usually through subordinate supervisory personnel, activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, and implementation. Include specialized construction fields, such as carpentry or plumbing. Include general superintendents, project managers, and constructors who manage, coordinate, and supervise the construction process.

View a Career Video for this occupation from America's Career InfoNet (requires Windows Media Player)

Occupational Wages [Top]

Area	Year	Period	Hourly Mean	Hourly by Percentile 25th	Median	75th
California	2007	1st Qtr	$45.77	$34.66	$43.28	$54.34

Get More Info (Data Library)

Occupational Projections of Employment (also called "Outlook" or "Demand") [Top]

Area	Estimated Year-Projected Year	Employment Estimated	Projected	Number	Employment Change Percent	Annual Avg Openings
California	2004 - 2014	35,400	41,100	5,700	16.1	1,210

Get More Info (Data Library)

Job Openings from JobCentral National Labor Exchange [Top]

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Within 25 miles of Zip Code.

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Possible Licenses Required and Issuing Authority [Top]

License Title	License Authority
General Building Contractor	Department of Consumer Affairs, Contractors State License Board 3821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900 Department of Consumer Affairs, Contractors State License Board

Low Voltage Systems Contractor	9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900 Department of Consumer Affairs, Contractors State License Board
Concrete Contractor	9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900 Department of Consumer Affairs, Contractors State License Board
Masonry Contractor	9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900 Department of Consumer Affairs, Contractors State License Board
Construction Zone Traffic Control Contractor	9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900 Department of Consumer Affairs, Contractors State License Board
Swimming Pool Contractor	9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900

Top 15 Industries Employing This Occupation (click on Industry Title to View Employers) [Top]

Industry Title	Number of Employers in State of California	Percent of Total Employment for Occupation in State of California
Nonresidential Building Construction	23,526	9.5%
Residential Building Construction	14,741	9.2%
Building Equipment Contractors	26,828	4.8%
Architectural and Engineering Services	24,140	2.8%
Building Foundation/Exterior Contractors	11,339	2.4%
Land Subdivision	3,533	2.2%
Building Finishing Contractors	21,812	2.1%
Other Specialty Trade Contractors	13,114	1.9%
Utility System Construction	1,813	1.5%
Management & Technical Consulting Svc	21,586	1.2%
Management of Companies and Enterprises	530	1.2%
Highway, Street, and Bridge Construction	2,490	0.8%
Lessors of Real Estate	23,552	0.5%
Activities Related to Real Estate	8,982	0.3%
Other Heavy Construction	3,074	0.3%

Training Programs (click on Title for more information) [Top]

Program Title

Applied Horticulture/Horticultural Operations, General

Landscaping and Groundskeeping

ONET Skills and Tasks [Top]

Skill	Importance	Competence Level
Coordination	90	74
Critical Thinking	77	67
Judgment and Decision Making	80	67
Management of Personnel Resources	67	67
Problem Identification	80	62
Product Inspection	80	61
Time Management	77	67

Tasks
Confers with supervisory personnel to discuss such matters as work procedures, complaints, and construction problems.
Contracts workers to perform construction work in accordance with specifications.
Directs and supervises workers on construction site to ensure project meets specifications.
Dispatches workers to construction sites to work on specified project.
Formulates reports concerning such areas as work progress, costs, and scheduling.

Related Links
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Occupation Profile

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Carpenters
in California

Construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms; building frameworks, including partitions, joists, studding, and rafters; wood stairways, window and door frames, and hardwood floors. May also install cabinets, siding, drywall and batt or roll insulation. Include brattice builders who build doors or brattices (ventilation walls or partitions) in underground passageways to control the proper circulation of air through the passageways and to the working places.

View a Career Video for this occupation from America's Career InfoNet (requires Windows Media Player)

Occupational Wages

[Top]

Area	Year	Period	Hourly Mean	Hourly by Percentile 25th	Median	75th
California	2007	1st Qtr	$23.91	$17.79	$24.12	$29.30

Get More Info (Data Library)

Occupational Projections of Employment (also called "Outlook" or "Demand")

[Top]

Area	Estimated Year-Projected Year	Employment Estimated	Projected	Employment Change Number	Percent	Annual Avg Openings
California	2004 - 2014	195,500	236,800	41,300	21.1	7,310

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Job Openings from JobCentral National Labor Exchange

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Find a Zip code in California

Within 25 miles of Zip Code.

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Possible Licenses Required and Issuing Authority

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License Title	License Authority
Elevated Floors Specialty Contractor	Department of Consumer Affairs, Contractors State License Board 9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900 Department of Consumer Affairs, Contractors State License Board

View a Career Video for this occupation from America's Career InfoNet (requires Windows Media Player)

[Top]

Area	Year	Period	Hourly Mean	Hourly by Percentile 25th	Median	75th
California	2007	1st Qtr	.....	$21.97	$28.91	$37.81

Get More Info (Data Library)

Occupational Projections of Employment (also called "Outlook" or "Demand") [Top]

Area	Estimated Year-Projected Year	Employment Estimated	Projected	Number	Employment Change Percent	Annual Avg Openings
California	2004 - 2014	22,500	28,500	6,000	26.7	[illegible]

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Job Openings from JobCentral National Labor Exchange [Top]

Enter a Zip Code Find a Zip code in California

Within 25 miles of Zip Code.

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Data for California not available for Possible Licenses Required and Issuing Authority.

Top 15 Industries Employing This Occupation (click on Industry Title to View Employers) [Top]

Industry Title	Number of Employers in State of California	Percent of Total Employment for Occupation in State of California
Building Equipment Contractors	26,628	15.3%
Automotive Repair and	38,735	11.7%

Maintenance		
Building Finishing Contractors	21,812	10.0%
Building Foundation/Exterior Contractors	11,328	7.7%
Residential Building Construction	14,741	6.2%
Other Specialty Trade Contractors	13,114	6.1%
Nonresidential Building Construction	23,528	5.2%
Highway, Street, and Bridge Construction	2,490	2.7%
Architectural and Structural Metals	2,181	2.5%
Printing and Related Support Activities	8,752	2.4%
Utility System Construction	1,813	2.0%
Aerospace Product & Parts Manufacturing	299	1.7%
Building Material and Supplies Dealers	14,238	1.7%
Automobile Dealers	8,322	1.7%
Architectural and Engineering Services	24,140	1.4%

Training Programs (click on Title for more information) [Top]

Program Title

Business Administration and Management, General

Purchasing, Procurement/Acquisitions & Contracts Management

ONET Skills and Tasks [Top]

Skill	Importance	Competence Level
Information Gathering	87	74
Mathematics	83	69
Reading Comprehension	80	64

Tasks

Analyzes blueprints, specifications, proposals, and other documentation, to prepare time, cost, [illegible]

Computes cost factors used for preparing estimates for management and determining cost effectiveness [illegible]

[illegible] cost estimation.

[illegible] with clients, vendors, or other individuals to discuss and formulate estimates and [illegible]

[illegible]

Related Links

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Construction and Related Workers, All Other

in California

Occupational Wages

[Top]

Area	Year	Period	Hourly Mean	Hourly by Percentile 25th	Median	75th
California	2007	1st Qtr	$20.01	$14.35	$18.71	$25.47

Get More Info (Data Library)

Occupational Projections of Employment (also called "Outlook" or "Demand")

[Top]

Area	Estimated Year-Projected Year	Employment Estimated	Projected	Employment Change Number	Percent	Annual Avg Openings
California	2004 - 2014	9,300	12,100	2,800	30.1	430

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Job Openings from JobCentral National Labor Exchange

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Enter a Zip Code

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Within 25 miles of Zip Code.

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Possible Licenses Required and Issuing Authority

[Top]

License Title	License Authority
Sand and Water Blasting Specialty Contractor	Department of Consumer Affairs, Contractors State License Board 9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900
Sign Installation Specialty Contractor	Department of Consumer Affairs, Contractors State License Board 9821 Business Park Drive Sacramento, CA 95827- Phone: 916-255-3900

Top 15 Industries Employing This Occupation (click on Industry Title to View Employers)

[Top]

Industry Title	Number of Employers in State of California	Percent of Total Employment for Occupation in State of California

Building Finishing Contractors	21,812	18.6%
Services to Buildings and Dwellings	27,335	1.2%
Building Foundation/Exterior Contractors	11,329	1.0%
Textile Product Mills	1,987	0.8%
Colleges and Universities	1,466	0.6%

Data for Training Programs not available.

Data for Skills not available.

Data for Tasks not available.

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Occupation Profile

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Construction and Building Inspectors

in California

Inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations. Inspections may be general in nature or may be limited to a specific area, such as electrical systems or plumbing.

View a Career Video for this occupation from America's Career InfoNet (requires Windows Media Player)

Occupational Wages

[Top]

Area	Year	Period	Hourly Mean	Hourly by Percentile 25th	Median	75th
California	2007	1st Qtr	$30.59	$23.79	$30.17	$36.84

Get More Info (Data Library)

Occupational Projections of Employment (also called "Outlook" or "Demand")

[Top]

Area	Estimated Year-Projected Year	Employment Estimated	Projected	Employment Change Number	Percent	Annual Avg Openings
California	2004 - 2014	11,000	13,800	2,800	25.5	530

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Job Openings from JobCentral National Labor Exchange

[Top]

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Within 25 miles of Zip Code.

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Possible Licenses Required and Issuing Authority

[Top]

License Title	License Authority
Hospital Inspector Certification	Office of Statewide Health Planning & Development, Facilities Development Division 1600 9th Street, Room 420 Sacramento, CA 95814- Phone: 916-654-3362

Top 15 Industries Employing This Occupation (click on Industry Title to View

[Top]

Employers)

Industry Title	Number of Employers in State of California	Percent of Total Employment for Occupation in State of California
Architectural and Engineering Services	24,146	25.1%
Services to Buildings and Dwellings	27,335	6.8%
Management & Technical Consulting Svc	21,586	4.5%
Employment Services	7,273	0.8%
Nonresidential Building Construction	23,526	0.5%

Training Programs (click on Title for more information) [Top]

Program Title
Architectural Engineering Technology/Technician
Building/Home/Construction Inspection/Inspector
Civil Engineering Technology/Technician
Construction Engineering Technology/Technician
Electrical & Power Transmission Installation/Installer, Gene

ONET Skills and Tasks [Top]

Skill	Importance	Competence Level
Active Listening	87	62
Critical Thinking	87	59
Identification of Key Causes	90	55
Information Gathering	87	52
Information Organization	77	48
Judgment and Decision Making	93	55
Management of Financial Resources	80	50
Mathematics	83	57
Problem Identification	97	62
Product Inspection	100	67
Reading Comprehension	83	59
Speaking	87	64
Systems Evaluation	83	52
Testing	87	57
Writing	90	59

Tasks
Approves and signs plans that meet required specifications.
Computes estimates of work completed and approves payment for contractors.
Confers with owners, violators, and authorities to explain regulations and recommend alterations in construction or specifications.
Evaluates premises for cleanliness, including garbage disposal and lack of vermin infestation.
Inspects bridges, dams, highways, building, wiring, plumbing, electrical circuits, sewer, heating system, and foundation for conformance to specifications and codes.

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