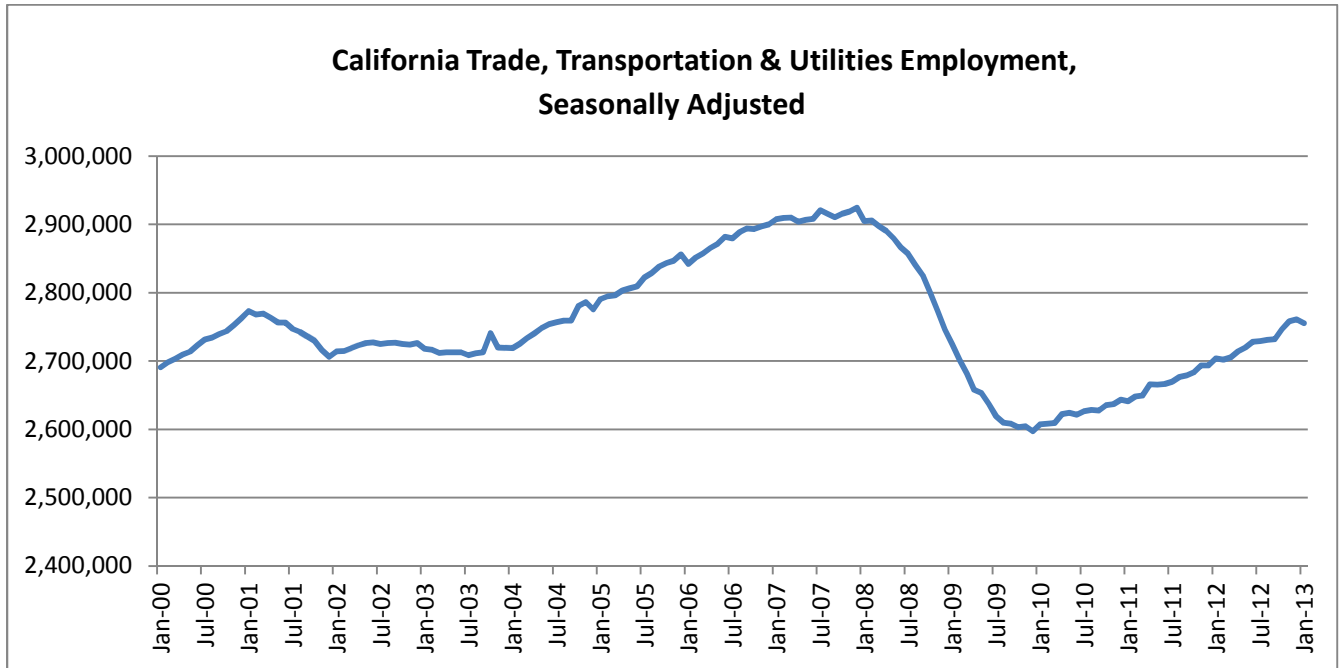


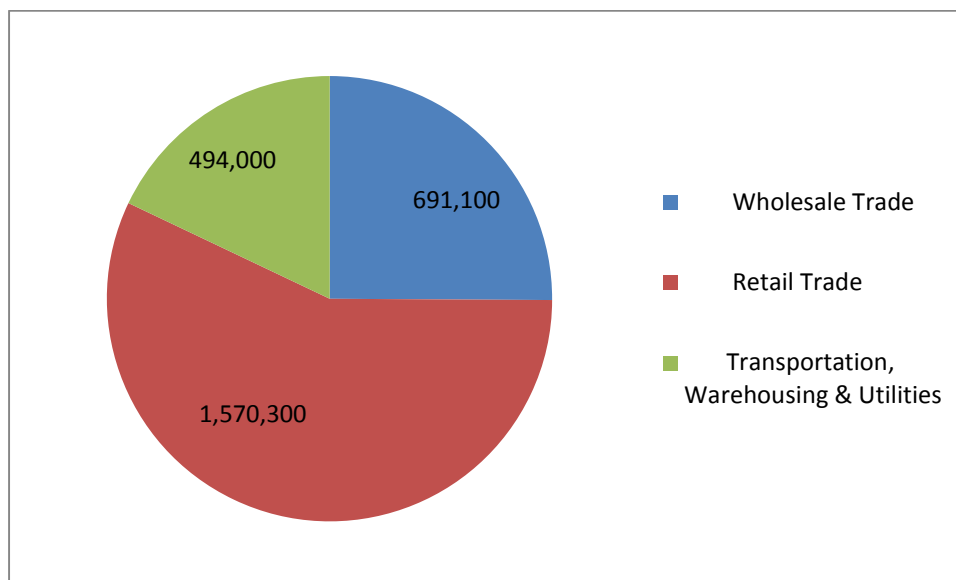
2012-13: Transportation & Materials Moving Occupations in California

California's transportation and materials moving industries, impacted by the downturn in housing, financial and automotive sectors, have experienced a slow steady climb, reaching more than 2.7 million jobs in wholesale and retail trade in January 2013.



Source: http://www.labormarketinfo.edd.ca.gov/LMID/Employment_by_Industry_Data.html

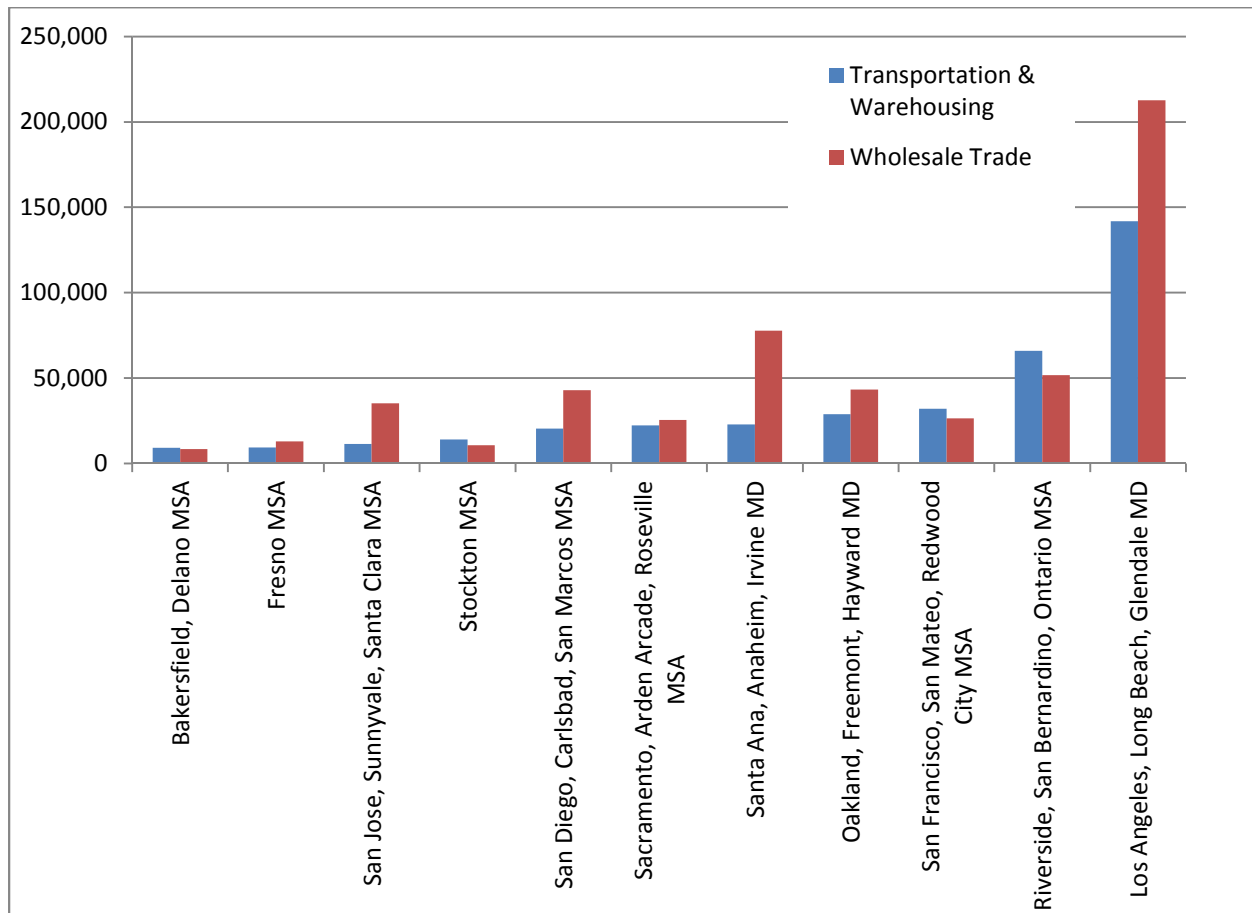
Trade, Transportation & Utilities Employment, Seasonally Adjusted, January 2013



Source: http://www.labormarketinfo.edd.ca.gov/LMID/Employment_by_Industry_Data.html

In 2012, California exported more than \$161 billion and imported more than \$376 billion in commodities¹ that directly supported 982,100 export jobs² and perhaps as many as 2.2 million import-related jobs.³ More than 70,000 exporting companies reside in California, the majority of which are located in Southern California.

Transportation & Warehousing and Wholesale Trade Employment, January 2013, Not Seasonally Adjusted, by major Metropolitan Division (MD) or Metropolitan Statistical Area (MSA)



Source: <http://www.labormarketinfo.edd.ca.gov/Content.asp?pageid=171> Sacramento, Arden Arcade, Roseville MSA & Bakersfield, Delano MSA Transportation & Warehousing data includes employment in the Utilities sector.

Annual payroll in the second quarter of 2012 for the Transportation and Warehousing sector exceeded \$5.5 billion, and in the Whole Trade sector payroll exceeded \$10.9 billion.⁴

¹ U.S. Department of Commerce, United States Census, <http://www.census.gov/foreign-trade/statistics/state/data/ca.html>

² On average each \$1billion in exports supports 6,100 jobs according to the U.S. Department of Commerce <http://www.trade.gov/mas/ian/employment/index.asp>

³ The Heritage Foundation analysis: How Imports Support U.S. Jobs <http://www.heritage.org/research/reports/2012/09/trade-freedom-how-imports-support-us-jobs>

⁴ U.S. Census Bureau, Center for Economic Studies <http://ledextract.ces.census.gov/static/data.html>

Transportation & Materials Moving job projections through 2018

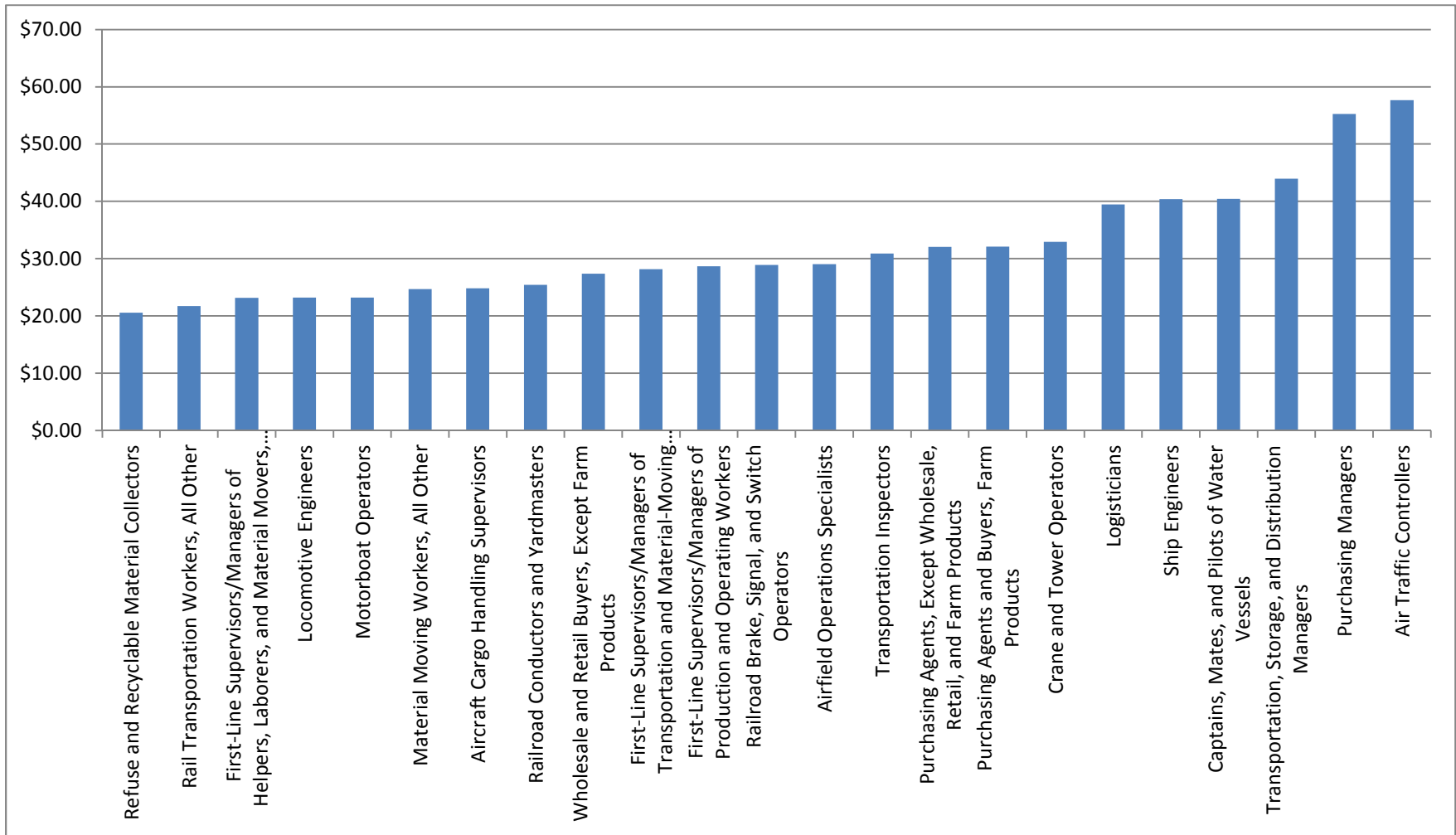
NAICS Codes	Industry Title	Annual Average Employment		Employment Change	
		2008	2018	Numerical	Percent
48-49	Transportation and Warehousing	445,800	481,600	35,800	8.0
481	Air transportation	46,700	47,700	1,000	2.1
4811	Scheduled Air Transportation	42,700	43,400	700	1.6
	Residual (includes 4812)	4,000	4,300	300	7.5
482	Rail Transportation	13,400	13,300	-100	-0.7
484	Truck Transportation	114,600	123,200	8,600	7.5
4841	General Freight Trucking	74,100	79,300	5,200	7.0
4842	Specialized Freight Trucking	40,500	43,900	3,400	8.4
485	Transit and Ground Passenger Transportation	37,400	43,800	6,400	17.1
4854	School and Employee Bus Transportation	9,300	10,900	1,600	17.2
	Residual (includes 4851-4853,4855,4859)	28,200	32,900	4,700	16.7
	Residual (includes 483,486-487)	11,100	12,600	1,500	13.5
488	Support Activities for Transportation	84,800	93,000	8,200	9.7
4883	Support Activities for Water Transportation	20,700	22,400	1,700	8.2
4884	Support Activities for Road Transportation	15,400	17,600	2,200	14.3
4885	Freight Transportation Arrangement	26,000	27,600	1,600	6.2
	Residual (includes 4881-4882,4889)	22,700	25,400	2,700	11.9
492	Couriers and Messengers	66,700	67,800	1,100	1.6
493	Warehousing and Storage	71,000	80,200	9,200	13.0

Source: California Employment Development Department
<http://www.labormarketinfo.edd.ca.gov/Content.asp?pageid=145>

Through 2018, transportation and warehousing employment is expected to grow by 35,800 jobs (8%), the majority in Trucking, Warehousing and Storage, Passenger Transportation, and Support Activities for Transportation. Mean hourly wages range from a high of \$56.17 for Air Traffic Controllers (SOC 53-2021) to a low of \$10.42 for Packers and Packagers, Hand (53-7064).

In a review of jobs posted on job search engine Simply Hired (simplyhired.com) using the key word "Logistics", more than 15,000 opportunities in California (which includes duplicates collected from multiple listing sites) were identified (more than 128,000 nationwide). Job titles with the greatest number of advertised jobs included Logistics Manager (715 listings), Transportation Manager (605 listings), Purchasing Manager (485 listings), and Distribution Manager (320 listings).

Highest Mean Hourly Wages for Selected Transportation & Materials Moving Occupations (2012 First Quarter)



Source: California Employment Development Department <http://www.labormarketinfo.edd.ca.gov/Content.asp?pageid=152>

Number of Transportation & Materials Moving Employers in California by Industry Title, 2010

NAICS Code	Industry	Number of Establishments 2010	Average Employment 2010
484	Truck Transportation	7,707	101,654
4842	Specialized Freight Trucking	2,993	35,499
4931	Warehousing and Storage	1,732	67,794
4883	Support Activities for Water Transportation	192	16,056
48811	Airport Operations	171	10,466
483	Water Transportation	147	4,716
486	Pipeline Transportation	108	2,821
4882	Support Activities for Rail Transportation	38	1,066
482	Rail Transportation	7	75
481	Air Transportation	3	546

Source: California Employment Development Department, <http://www.labormarketinfo.edd.ca.gov/Content.asp?pageid=173>

California Community College degree & certificate programs that prepare students for jobs in materials moving & transportation occupations

Aeronautical & Aviation Technology

Antelope Valley College

Aeronautical and Aviation Technology
<http://www.avc.edu>
3041 W Avenue K, Lancaster, CA, 93536
Tops Code: 950
Local Title: General Aircraft Maintenance
Cert Units: 18
Degree Units: 18
Degree Type: S
Year Approved: 1970
Unique Code: 2153
Comment: Degree is titled Aeronautical and Aviation Technology. Oriented toward FAA General Mechanic certification.

Orange Coast College

Aeronautical and Aviation Technology
<http://www.orangecoastcollege.edu>
2701 Fairview Rd, Costa Mesa, CA, 92626
Tops Code: 950
Local Title: Aviation Maintenance Technology: Airframe & Powerplant
Cert Units: 63
Degree Units: 63
Degree Type: B
Year Approved: 1970
Unique Code: 3977
Comment: Combined airframe and powerplant program.

Gavilan College

Aeronautical and Aviation Technology
<http://www.gavilan.edu>
5055 Santa Teresa Blvd, Gilroy, CA, 95020
Tops Code: 950
Local Title: Aviation Maintenance Technology
Cert Units: 70
Degree Units: 70
Degree Type: S
Year Approved: 1965
Unique Code: 6124
Comment: 2 options: Airframe and Powerplant

Reedley College

Aeronautical and Aviation Technology
<http://www.reedleycollege.edu>
995 N Reed Ave, Reedley, CA, 93654
Tops Code: 950
Local Title: Aviation Maintenance Technology
Cert Units: 70
Degree Units: 70
Degree Type: S
Year Approved: 1970
Unique Code: 1771
Comment: Program is a combination of Airframe and Powerplant is approved by the Fed Aviation Admin.

Long Beach City College

Aeronautical and Aviation Technology
<http://www.lbcc.edu>
4901 E Carson St, Long Beach, CA, 90808
Tops Code: 950
Local Title: Aviation Maintenance (Airframe/Powerplant Mechanic)
Cert Units: 55
Degree Units: 55
Degree Type: S
Year Approved: 1970
Unique Code: 2650

Sacramento City College

Aeronautical and Aviation Technology
<http://www.scc.losrios.edu>
3835 Freeport Blvd, Sacramento, CA, 95818
Tops Code: 950
Local Title: Aeronautics - Combined Airframe & Powerplant
Cert Units: 64
Degree Units: 64
Degree Type: S
Year Approved: 1970
Unique Code: 4671
Comment: Requires 16 unit aeronautics core, plus specialty coursework for both airframe and powerplant options.

Mount San Antonio College

Aeronautical and Aviation Technology
<http://www.mtsac.edu>
1100 N Grand Ave, Walnut, CA, 91789
Tops Code: 950
Local Title: Airframe & Aircraft Powerplant Maintenance Technology
Degree Units: 63
Degree Type: S
Year Approved: 1970
Unique Code: 8078
Comment: Separately organized day and evening sequences.
Combined program for airframe or powerplant certifications.

San Diego Miramar College

Aeronautical and Aviation Technology
<http://www.sdmiramar.edu>
10440 Black Mountain Rd, San Diego, CA, 92126
Tops Code: 950
Local Title: Aviation Maintenance Technology: Aviation General Studies
Cert Units: 18
Degree Units: 18
Degree Type: S
Year Approved: 2005
Unique Code: 16731

San Diego Miramar College

Aeronautical and Aviation Technology
<http://www.sdmiramar.edu>
10440 Black Mountain Rd, San Diego, CA, 92126
Tops Code: 950
Local Title: Aviation Maintenance Technology: Airframe and Powerplant
Cert Units: 78
Degree Units: 78
Degree Type: S
Year Approved: 2005
Unique Code: 16732

San Diego Miramar College

Aeronautical and Aviation Technology
<http://www.sdmiramar.edu>
10440 Black Mountain Rd, San Diego, CA, 92126
Tops Code: 950
Local Title: Aviation Maintenance Technology: Pilot Studies
Cert Units: 21
Degree Units: 21
Degree Type: S
Year Approved: 2006
Unique Code: 16973

San Bernardino Valley College

Aeronautical and Aviation Technology
<http://www.valleycollege.edu>
701 S Mt Vernon Ave, San Bernardino, CA, 92410
Tops Code: 950
Local Title: Airframe and Powerplant Technology/Aviation Maintenance Tech
Cert Units: 58
Degree Units: 58
Degree Type: S
Year Approved: 1970
Unique Code: 9276
Comment: Certificate is called Aviation Maintenance Technician

Solano Community College

Aeronautical and Aviation Technology
<http://www.solano.edu>
4000 Suisun Valley Rd, Fairfield, CA, 94534
Tops Code: 950
Local Title: Aeronautics Airframe & Powerplant Maintenance Technician
Cert Units: 62
Degree Units: 62
Degree Type: S
Year Approved: 1973
Unique Code: 6524

Victor Valley Community College

Aeronautical and Aviation Technology
<http://www.vvc.edu>
18422 Bear Valley Rd, Victorville, CA, 92395
Tops Code: 950
Local Title: Aviation Maintenance Technology
Degree Units: 56
Degree Type: S
Year Approved: 2007
Unique Code: 17585
Comment: Degree requires completion of the General Aviation certificate (14 units), Aviation Airframe certificate (21 units), Aviation Powerplant cert

West Los Angeles College

Aeronautical and Aviation Technology
<http://www.wlac.edu>
4800 Freshman Dr, Culver City, CA, 90230
Tops Code: 950
Local Title: Aviation Maintenance Technician
Degree Units: 72
Degree Type: S
Year Approved: 1978
Unique Code: 3313
Comment: Combination airframe and powerplant.

Aircraft Electronics (Avionics)

Orange Coast College

Aircraft Electronics (Avionics)
<http://www.orangecoastcollege.edu>
2701 Fairview Rd, Costa Mesa, CA, 92626
Tops Code: 950.4
Local Title: Aviation Maintenance Technology: Avionics
Cert Units: 17
Degree Units: 17
Degree Type: B
Year Approved: 1990
Unique Code: 8627

San Mateo, College of

Aircraft Electronics (Avionics)
<http://www.collegeofsanmateo.edu>
1700 W Hillsdale Blvd, San Mateo, CA, 94402
Tops Code: 950.4
Local Title: Avionics System Maintenance: Option 2
Cert Units: 29
Degree Units: 29
Degree Type: S
Year Approved: 1990
Unique Code: 10930
Comment: For those who already hold an airframe and powerplant FAA certificate. Six units additional credit granted for holding prior certificate.

San Bernardino Valley College

Aircraft Electronics (Avionics)
<http://www.valleycollege.edu>
701 S Mt Vernon Ave, San Bernardino, CA, 92410
Tops Code: 950.4
Local Title: Avionics Technology
Cert Units: 52
Degree Units: 52
Degree Type: S
Year Approved: 2003
Unique Code: 14523
Comment: Consists of 34 units in Electronics Technology and 18 units of avionics technology, including aviation fundamentals, FCC rules and regulation

Solano Community College

Aircraft Electronics (Avionics)
<http://www.solano.edu>
4000 Suisun Valley Rd, Fairfield, CA, 94534
Tops Code: 950.4
Local Title: Avionics Technician
Cert Units: 28
Degree Units: 28
Degree Type: S
Year Approved: 1999
Unique Code: 7811
Comment: Includes aircraft communications, navigation, radar systems. Program is a Certified Repair Station that administers FAA certification exams.

San Francisco, City College

Aircraft Electronics (Avionics)
<http://www.ccsf.edu>
50 Phelan Ave, San Francisco, CA, 94112
Tops Code: 950.4
Local Title: Avionics Maintenance Technology
Degree Units: 43
Degree Type: S
Year Approved: 1970
Unique Code: 5467
Comment: One of three options under Aircraft Maintenance Technology degree. No combination or general program; all students must choose one of three

Alternative Fuels & Advanced Transportation Technology

Desert, College of the

Alternative Fuels and Advanced Transportation Technology
<http://www.collegeofthedesert.edu>
43500 Monterey Ave, Palm Desert, CA, 92260
Tops Code: 948.4
Local Title: Automotive Alternative Fuels
Cert Units: 21
Year Approved: 2002
Unique Code: 13487
Comment: Includes Advanced Transportation power trains, electrical, engine performance, compressed natural gas and LPG.

Desert, College of the

Alternative Fuels and Advanced Transportation Technology
<http://www.collegeofthedesert.edu>
43500 Monterey Ave, Palm Desert, CA, 92260
Tops Code: 948.4
Local Title: Automotive Performance & Emission Control Technician
Cert Units: 26
Year Approved: 2002
Unique Code: 13486
Comment: Includes Advanced Transportation power trains, electrical, fuel cells and hybrid drives, engine performance, smog controls.

Desert, College of the

Alternative Fuels and Advanced Transportation Technology
<http://www.collegeofthedesert.edu>
43500 Monterey Ave, Palm Desert, CA, 92260
Tops Code: 948.4
Local Title: Advanced Transportation Technologies
Degree Units: 40
Degree Type: S
Year Approved: 2002
Unique Code: 13485
Comment: Combines general automotive courses with advanced courses in engine performance, electrical systems, alternative fuels (compressed natural gas)

Long Beach City College

Alternative Fuels and Advanced Transportation Technology
<http://www.lbcc.edu>
4901 E Carson St, Long Beach, CA, 90808
Tops Code: 948.4
Local Title: Advanced Transportation Technology--Electric Vehicles
Cert Units: 18.5
Degree Units: 18.5
Degree Type: S
Year Approved: 2002
Unique Code: 12779
Comment: Includes advanced and competition electric vehicles, introduction to alternative fuels.

Long Beach City College

Alternative Fuels and Advanced Transportation Technology
<http://www.lbcc.edu>
4901 E Carson St, Long Beach, CA, 90808
Tops Code: 948.4
Local Title: Advanced Transportation Technology--Alternative Fuels
Cert Units: 24
Degree Units: 24
Degree Type: S
Year Approved: 2002
Unique Code: 12778
Comment: Emphasis on heavy duty alternative (gaseous) fuel vehicles and conversions.

Sacramento City College

Alternative Fuels and Advanced Transportation Technology
<http://www.scc.losrios.edu>
3835 Freeport Blvd, Sacramento, CA, 95818
Tops Code: 948.4
Local Title: Electric Vehicle Technology
Cert Units: 18
Year Approved: 2000
Unique Code: 11955
Comment: Includes electric vehicle conversion, batteries, electronics, etc.

Diesel Technology

Alameda, College of

Diesel Technology
<http://www.peralta.cc.ca.us/coa/coa.htm>
555 Atlantic Ave., Alameda, CA 94501
Tops Code: 947
Local Title: Diesel Mechanics
Cert Units: 46
Degree Units: 46
Degree Type: S
Year Approved: 1970
Unique Code: 1113

American River College

Diesel Technology
<http://www.arc.losrios.edu>
4700 College Oak Dr, Sacramento, CA, 95841
Tops Code: 947
Local Title: Diesel Technology
Cert Units: 24
Year Approved: 1958
Unique Code: 18005

American River College

Diesel Technology
<http://www.arc.losrios.edu>
4700 College Oak Dr, Sacramento, CA, 95841
Tops Code: 947
Local Title: Diesel Technology [A.S. degree]
Degree Units: 60
Degree Type: S
Year Approved: 1958
Unique Code: 4533

Barstow College

Diesel Technology
<http://www.barstow.edu>
2700 Barstow Rd, Barstow, CA, 92311
Tops Code: 947
Local Title: Diesel Technology
Cert Units: 24
Degree Units: 20
Degree Type: S
Year Approved: 1988
Unique Code: 4736
Comment: Degree is called Automotive Technology

Citrus College

Diesel Technology
<http://www.citruscollege.edu>
1000 W Foothill Blvd, Glendora, CA, 91741
Tops Code: 947
Local Title: Medium and Heavy Diesel Truck Technology
Cert Units: 22
Degree Units: 18
Degree Type: S
Year Approved: 1972
Unique Code: 2327

Golden West College

Diesel Technology
<http://www.gwc.cccd.edu>
15744 Goldenwest St, Huntington Beach, CA, 92647
Tops Code: 947
Local Title: Diesel Mechanic
Cert Units: 28
Year Approved: 1970
Unique Code: 18967

Golden West College

Diesel Technology
<http://www.gwc.cccd.edu>
15744 Goldenwest St, Huntington Beach, CA, 92647
Tops Code: 947
Local Title: Diesel Mechanic
Degree Units: 28
Degree Type: A
Year Approved: 1970
Unique Code: 3910

Hartnell College

Diesel Technology
<http://www.hartnell.edu>
156 Homestead Ave, Salinas, CA, 93901
Tops Code: 947
Local Title: Heavy Duty Diesel Technology: Transportation
Cert Units: 43
Degree Units: 60
Degree Type: S
Year Approved: 1982
Unique Code: 8879

Long Beach City College

Diesel Technology
<http://www.lbcc.edu>
4901 E Carson St, Long Beach, CA, 90808
Tops Code: 947
Local Title: Diesel Mechanics - General
Cert Units: 45
Degree Units: 45
Degree Type: S
Year Approved: 1970
Unique Code: 2644
Comment: Two options: general, and Caterpillar equipment.

Long Beach City College

Diesel Technology
<http://www.lbcc.edu>
4901 E Carson St, Long Beach, CA, 90808
Tops Code: 947
Local Title: Diesel Mechanics - Caterpillar
Cert Units: 45
Degree Units: 45
Degree Type: S
Year Approved: 1970
Unique Code: 11313

Los Angeles Trade-Technical

Diesel Technology
<http://www.lattc.edu>
400 W Washington Blvd, Los Angeles, CA, 90015
Tops Code: 947
Local Title: Diesel and Related Technology
Cert Units: 45
Degree Units: 45
Degree Type: S
Year Approved: 1970
Unique Code: 2905

Los Angeles Trade-Technical

Diesel Technology
<http://www.lattc.edu>
400 W Washington Blvd, Los Angeles, CA, 90015
Tops Code: 947
Local Title: Diesel and Related Technology-Adjunct
Cert Units: 28
Year Approved: 1970
Unique Code: 8476
Comment: Offered at night.

Palomar College

Diesel Technology
<http://www.palomar.edu>
1140 W Mission Rd, San Marcos, CA, 92069
Tops Code: 947
Local Title: Diesel Technology
Cert Units: 35
Degree Units: 35
Degree Type: A
Year Approved: 1970
Unique Code: 5162

Redwoods, College of the

Diesel Technology
<http://www.redwoods.edu>
7351 Tompkins Hill Rd, Eureka, CA, 95501
Tops Code: 947
Local Title: Diesel Technology
Cert Units: 39
Degree Units: 42
Degree Type: S
Year Approved: 1965
Unique Code: 1815
Comment: Educational opportunities for students seeking careers related to the maintenance and operation of diesel equipment.

San Bernardino Valley College

Diesel Technology
<http://www.valleycollege.edu>
701 S Mt Vernon Ave, San Bernardino, CA, 92410
Tops Code: 947
Local Title: Heavy-Duty Diesel Technician
Cert Units: 30
Year Approved: 1970
Unique Code: 4881

San Diego Miramar College

Diesel Technology
<http://www.sdmiramar.edu>
10440 Black Mountain Rd, San Diego, CA, 92126
Tops Code: 947
Local Title: Diesel Technology: Diesel Equipment Repair
Technology
Cert Units: 32
Year Approved: 1980
Unique Code: 9719

San Diego Miramar College

Diesel Technology
<http://www.sdmiramar.edu>
10440 Black Mountain Rd, San Diego, CA, 92126
Tops Code: 947
Local Title: Diesel Technology: Engine Repair, Detroit Diesel
Cert Units: 19
Year Approved: 2005
Unique Code: 16703
Comment: Diagnosis and repair of Detroit Diesel engine failures, routine maintenance, and preventative maintenance procedures

San Diego Miramar College

Diesel Technology
<http://www.sdmiramar.edu>
10440 Black Mountain Rd, San Diego, CA, 92126
Tops Code: 947
Local Title: Diesel Technology: Engine Overhaul, Detroit Diesel
Cert Units: 18
Year Approved: 2005
Unique Code: 16702
Comment: In depth study of Detroit manufactured engines and Detroit Diesel engine overhaul procedures.

San Diego Miramar College

Diesel Technology
<http://www.sdmiramar.edu>
10440 Black Mountain Rd, San Diego, CA, 92126
Tops Code: 947
Local Title: Diesel Technology: Engine Repair, Caterpillar
Cert Units: 19
Year Approved: 2005
Unique Code: 16701
Comment: Diagnosis and repair of four-stroke cycle diesel engine failures, routine maintenance, and preventative maintenance procedures

San Diego Miramar College

Diesel Technology
<http://www.sdmiramar.edu>
10440 Black Mountain Rd, San Diego, CA, 92126
Tops Code: 947
Local Title: Diesel Technology: Engine Overhaul, Caterpillar
Cert Units: 18
Year Approved: 2005
Unique Code: 16700
Comment: In-depth study of, and overhaul procedures for, four-stroke cycle diesel engines such as Caterpillar and John Deere.

San Diego Miramar College

Diesel Technology
<http://www.sdmiramar.edu>
10440 Black Mountain Rd, San Diego, CA, 92126
Tops Code: 947
Local Title: Diesel Technology: Engine Repair, Cummins
Cert Units: 19
Year Approved: 2006
Unique Code: 16781

San Diego Miramar College

Diesel Technology
<http://www.sdmiramar.edu>
10440 Black Mountain Rd, San Diego, CA, 92126
Tops Code: 947
Cert Units: 18
Year Approved: 2006
Unique Code: 16780

San Joaquin Delta College

Diesel Technology
<http://www.deltacollege.edu>
5151 Pacific Ave, Stockton, CA, 95207
Tops Code: 947
Local Title: Diesel Equipment Technician
Cert Units: 42
Degree Units: 39
Degree Type: S
Year Approved: 1979
Unique Code: 7420
Comment: Degree added 2002.

San Joaquin Delta College

Diesel Technology
<http://www.deltacollege.edu>
5151 Pacific Ave, Stockton, CA, 95207
Tops Code: 947
Local Title: Diesel Automotive Equipment Technician
Cert Units: 54
Year Approved: 1989
Unique Code: 5602

Santa Ana College

Diesel Technology
<http://www.sac.edu>
 1530 W 17th St, Santa Ana, CA, 92706
 Tops Code: 947
 Local Title: Mid-Range Engine Service
 Cert Units: 24
 Degree Units: 24
 Degree Type: B
 Year Approved: 1970
 Unique Code: 8712
 Comment: Light to medium-duty diesels.

Shasta College

Diesel Technology
<http://www.shastacollege.edu>
 11555 Old Oregon Trail, Redding, CA, 96049
 Tops Code: 947
 Local Title: Diesel Technology
 Cert Units: 45.5
 Degree Units: 45.5
 Degree Type: S
 Year Approved: 1952
 Unique Code: 6423

Santa Rosa Junior College

Diesel Technology
<http://www.santarosa.edu>
 1501 Mendocino Ave, Santa Rosa, CA, 95401
 Tops Code: 947
 Local Title: Diesel Equipment Technology
 Cert Units: 48
 Degree Units: 49
 Degree Type: S
 Year Approved: 1978
 Unique Code: 9626

Logistics Management

Riverside-Norco College

A partner in the Southern California Logistics Technology Collaborative (SCLTC), the college offers:
 Certificate in Logistics Management
 Certificate in Business Administration with Logistics Management Concentration (available online)
 Associate of Science Degree in Logistics Management
 Associate of Science Degree in Business Administration with Logistics Management Concentration
<http://faculty.rcc.edu/logisticsmanagement/>
 2001 Third Street, Norco, CA 92860

San Joaquin Delta College

<http://www.deltacollege.edu/dept/ar/catalog/current/index.htm>
 5151 Pacific Ave, Stockton, California 95207
 Certificate in Logistics & Transportation Supervisor
 Certificate Units: 22.5

Logistics & Transportation

College of Alameda

<http://atlas-training.org/training/>
 Warehouse Operations & Forklift Certification
 Office Administration for the Logistics Industry Certificate
 Green Diesel Technician Program

Santa Monica College

<http://www.smc.edu/AcademicPrograms/BusinessDepartment/Pages/Logistics.aspx>
 AA Degree in Logistics/Supply Chain Management
 Certificate in Logistics/Supply Chain Management
 Certificate in Business Logistics

Long Beach City College

<http://www.lbcc.edu/ERD/supply-chain-logistc.cfm>

A partner in the Southern California Logistics Technology Collaborative (SCLTC), the college offers short-term modular training in three topics: Logistics/Warehouse, Alternative Fuels, and RFID & Physical Security.

Southwest College

Certificate program in Logistics emphasizes the development of skills in transporting goods, planning operations, inventory and warehousing, and supply chain management. TOTAL UNITS 19
Contact: Martha Jimenez (619) 216-6750, X4411

San Bernardino CCD

<http://logisticstech.org/>

The lead agency in the Southern California Logistics Technology Collaborative (SCLTC), two new certification programs have been developed under the auspices of the [Manufacturing Skills Standards Council \(MSSC\)](#): the Certified Logistics Associate (CLA) and Certified Logistics Technician (CLT)

Technology & Logistics

East Los Angeles College

<http://www.elaclogistics.com/>

A partner in the Southern California Logistics Technology Collaborative (SCLTC), ELAC's will strengthen its existing Logistics program. Current curriculum, including online courses, will be enhanced and new classes developed. Two new certification programs have been developed under the auspices of the [Manufacturing Skills Standards Council \(MSSC\)](#): the Certified Logistics Associate (CLA) and Certified Logistics Technician (CLT).

Mechatronics/Industrial Automation/Electro-Mechanical Technology

Chaffey College

<http://www.chaffey.edu/bat/electrical/degrees.shtml>

5885 Haven Avenue, Rancho Cucamonga, CA 91737-3002
Certificate Units: 15 (Level I), 22 (Level II), 25.5 (Level III)
Degree Units: 60

AS Degree in Industrial Electrical Technology:
Electromechanical Technology
Certificates in Industrial Electrical Mechanical Technology
(Level I, II, III)

San Joaquin Delta College

<http://www.deltacollege.edu/div/astech/Programs/INDUSTECH.html>

5151 Pacific Ave, Stockton, California 95207
Certificate in Industrial Technology: 30.5 units
Mechanical Apprenticeship Certificate: 34 units

Cuyamaca College

<http://www.cuyamaca.edu/cc/pdf/catalog10-11/047-071-Degrees.pdf>

900 Rancho San Diego Pkwy, El Cajon, California 92019
AS or Certificate in Mechanical/Aerospace Engineering with an option to pursue a Certificate of Specialization in Mechatronics (8 Units)

Sierra College

www.realskillsrealjobs.com

5000 Rocklin Road, Rocklin CA 95677
Local Title: Mechatronics Technology
Electro-Mechanical Skills Certificate Units: 9
Degree Units: 60

Los Angeles Harbor College

1111 Figueroa Place, Wilmington, CA 90744

Certificate Units: 31

Degree Units: 64

AS Degrees and Certificates in Electro-Mechanical Engineering Technologist and Plant Process Technology

Riverside College

http://www.rccdact.net/mechatronics_certificate_program.html

4800 Magnolia Ave, Riverside, CA 92506-1299

Local Title: Manufacturing Technology

Certificate Units: 29

Degree Units: 60

AS Degrees in Automated Systems, Automated Systems

Technician, and Manufacturing Management

Certificates in Computer-Aided Production Technology and

Materials & Operations Management

Railroad & Light Rail Operations

Sacramento City College

<http://www.scc.losrios.edu>

3835 Freeport Blvd, Sacramento, CA, 95818

Tops Code: 947.4

Local Title: Railroad Operations

Cert Units: 18

Degree Units: 18

Degree Type: S

Year Approved: 2000

Unique Code: 7369

Comment: Prepares for conductor/engineer positions. Practical experience ground school provided

San Diego City College

<http://www.sdcity.edu>

1313 12th Ave, San Diego, CA, 92101

Tops Code: 947.4

Local Title: San Diego Trolley Apprenticeship

Cert Units: 30

Degree Units: 30

Degree Type: S

Year Approved: 1981

Unique Code: 9461

Comment: Apprenticeship only. Three trades are apprenticed: Wayside Assistant Lineman; Light Rail Vehicle Lineman, and Revenue Maintainer.

Emerging Occupations in Green Transportation & Materials Movement

Green supply chains optimize the entire sequence of steps involved in the design and production of a product. This includes:

- Designing a product to minimize environmental impacts over its life and beyond.
- Reducing or eliminating waste by-products.
- Recycling or repurposing the product when it is no longer useful to the consumer.

Emerging occupations in logistics, transportation and materials moving sectors will be driven by opportunities to build sustainable supply chains. ‘Green New and Emerging occupations,’ identified by the U.S. Department of Labor, that will support employer efforts to build and maintain a sustainable supply chain include:

New & Emerging Logistics Occupations

SOC Code	Occupation Title
11-1011.03	Chief Sustainability Officers
19-2041.01	Climate Change Analysts
11-9199.02	Compliance Managers
19-3011.01	Environmental Economists
15-1099.07	Geographic Information Systems Technicians
15-1099.06	Geothermal Production Managers
19-2041.03	Industrial Ecologists
17-3029.05	Industrial Engineering Technologists
13-1081.02	Logistics Analysts
13-1081.01	Logistics Engineers
11-9199.06	Logistics Managers
17-3029.09	Manufacturing Production Technicians
51-9199.01	Recycling and Reclamation Workers
53-1021.01	Recycling Coordinators
11-9199.04	Supply Chain Managers
13-1199.05	Sustainability Specialists
17-2051.01	Transportation Engineers
19-3099.01	Transportation Planners

Source: <http://www.onetcenter.org/green/emerging.html>

For more information on emerging green occupations in transportation and materials movement, visit <http://www.cccindustrialtech.org/Reports/EmrgngSstnblOcceptnsInCA-MnfctrngCnst.pdf>

Industry Certifications

APICS – www.apics.org

California Resource Recovery Certification - <http://www.crra.com/certifications/index.shtml>

Institute for Supply Chain Management - <http://www.ism.ws/>

Manufacturing Skills Standards Council (MSSC) - <http://msscusa.org/>

Resources

American Association of Port Authorities - <http://www.aapa-ports.org/>

American Society of Transportation & Logistics - <http://www.astl.org/i4a/pages/index.cfm?pageid=1>

American Trucking Associations - <http://www.truckline.com/Pages/Home.aspx>

Association of American Railroads - <http://www.aar.org/>

Association for Operations Management - www.apics.org

Association of Women in International Trade - <http://www.wiit.org/>

Business Guide to a Sustainable Supply Chain: A Practical Guide. New Zealand Business Council for a Sustainable Environment. November 2003. <http://www.nzbcscd.org.nz/supplychain/SupplyChain.pdf>

California Transportation and Logistics Institute. <http://www.laedc.org/catli/careerpath.html>

Centers of Excellence, Environmental Scans. http://www.coecc.net/Environmental_Scans/

Council of Supply Chain Management Professionals - www.cscmp.org

Current and Potential Green Jobs in the U.S. Economy. October 2008. U.S. Conference of Mayors. <http://www.usmayors.org/pressreleases/uploads/GreenJobsReport.pdf>

G25: 25 Green Supply Chain Partners. Inbound Logistics. August 2009. <http://www.inboundlogistics.com/digital/green25partners.pdf>

Green Collar Association - <http://www.greencollar.org/>

Green Jobs Guidebook. Environmental Defense Fund. Updated May 2009. <http://www.edf.org/article.cfm?contentid=8466>

Green Jobs: Towards Decent Work in a Sustainable, Low-Carbon World. United Nations Environmental Programme. September 2008. http://www.unep.org/labour_environment/features/greenjobs-report.asp

Green Logistics: Research into the sustainability of logistics systems and supply chains.
<http://www.greenlogistics.org/PageView.aspx?id=97>

Handbook of Supply Chain Costing. CSCMP. <http://cscmp.org/>

International Society of Logistics - www.sole.org

Logistics Training Consortium of Southern California. <http://www.ltcsoal.com/index.html>

Material Handling Industry of America - www.mhia.org

San Bernardino Community College District, Southern California Logistics Technology Collaborative -
<http://logisticstech.org/about-scltc.html>

Provides industry based training programs to improve the logistics workforce skills along the transportation corridor between the ocean ports of Los Angeles and Long Beach and multiple distribution sites across Riverside and San Bernardino counties.

Supply Chain Brain. <http://www.supplychainbrain.com/content/index.php>

Supply Chain 2020. MIT Center for Transportation & Logistics. <http://ctl.mit.edu/metadot/index.pl?id=5439>

University of Redlands, Institute for Spatial Economic Analysis – Is Southern California Too Dependent On Logistics?
<http://www.redlands.edu/news/10062.aspx>

Women In Transportation - <http://www.wtsinternational.org/>

Women In Trucking - <http://www.womenintrucking.org/>