Riverside Community College District

CTE 2-Year Program Review

Scope

Data compiled in this report covers the Riverside-San Bernardino-Ontario MSA. Data were drawn from external sources, including the Employment Development Department's California Labor Market Information, Burning Glass, and the California Community Colleges Chancellor's Office Management Information Systems Data Mart.

Data Sources and Calculations

Educational Program Data
The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data
The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories.

Job Postings
Labor Insights/ Burning Glass is a collection of online job postings from online sources (e.g. job boards, employer sites, newspapers, public agencies, etc.) and uses proprietary software to mine and code detailed data from each job listing.

Educational Program to Occupation Crosswalk
The TOP-CIP-SOC Crosswalk (Center of Excellence, 2015) was used in this report to map California Community College-specific Taxonomy of Program (TOP) codes to federal Classification of Instructional Program (CIP) and Standard Occupational Classifications (SOC) codes. This crosswalk allows the user to estimate labor market demand for California Community College program completers using SOC based projections from the Labor Market Information Division.

Industry Data
The North American Industry Classification System (NAICS) is used by federal statistical agencies to classify business establishments for the purpose of conducting and reporting research on the U.S. business economy. Using the Standard Occupational Classification codes listed above, associated NAICS industries were identified.

Completions Data
Degree and certificate data for all comparison schools were collected from the California Community Colleges Chancellor's Office Management Information Systems Data Mart.

Regional Definition

Riverside-San Bernardino-Ontario Metropolitan Statistical Area (MSA) includes Riverside and San Bernardino County.

Key Terms and Concepts

Annual Openings: Annual openings are calculated by adding the number of new jobs to the number of replacement jobs, divided by the number of years in the projection period.

Projections: Projections of employment are calculated by the Employment Development Department and are based on a mathematical formula that includes historical employment and economic indicators along with national, state, and local trends.

Occupation: Jobs are grouped into occupations using the federal Standard Occupational Classification (SOC) system.

Industry: Occupations are grouped into industries using the North American Industry Classification System (NAICS).

Wages: Hourly wages are reported in percentiles and averages. The10th percentile is a useful proxy of entry-level wages and the 90th percentile of experienced-level wages.

Administration of Justice

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Administration of Justice are 210500, 210550, 210510, 219900 and 210540.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Administration of Justice are 430107, 430102, 430102, and 449999.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Administration of Justice are: Forensic Science Technicians (SOC: 19-4092), First-Line Supervisors of Police and Detectives (SOC: 33-1012), Bailiffs (SOC: 33-3011), Correctional Officers and Jailers (SOC: 33-3012), Detectives and Criminal Investigators (SOC: 33-3021) Police and Sheriff's Patrol Officers (SOC: 33-3051), Private Detectives and Investigators (SOC: 33-9021), and Security Guards (SOC: 33-9032).

Background Information: Administration of Justice Occupations

Forensic Science Technicians (SOC: 19-4092)
Collect, identify, classify, and analyze physical evidence related to criminal investigations. Perform tests on weapons or substances, such as fiber, hair, and tissue to determine significance to investigation. May testify as expert witnesses on evidence or crime laboratory techniques. May serve as specialists in area of expertise, such as ballistics, fingerprinting, handwriting, or biochemistry. Requires a Bachelor's or Higher.

Bailiffs (SOC: 33-3011)
Maintain order in courts of law. On-The-Job Training, No College Required.

Correctional Officers and Jailers (SOC: 33-3012)
Guard inmates in penal or rehabilitative institutions in accordance with established regulations and procedures. May guard prisoners in transit between jail, courtroom, prison, or other point. Includes deputy sheriffs and police who spend the majority of their time guarding prisoners in correctional institutions. On-The-Job Training, No College Required.

Detectives and Criminal Investigators (SOC: 33-3021)
Conduct investigations related to suspected violations of Federal, State, or local laws to prevent or solve crimes. On-The-Job Training, No College Required.

Police and Sheriff's Patrol Officers (SOC: 33-3051)
Maintain order and protect life and property by enforcing local, tribal, State, or Federal laws and ordinances. Perform a combination of the following duties: patrol a specific area; direct traffic; issue traffic summonses; investigate accidents; apprehend and arrest suspects, or serve legal processes of courts. On-The-Job Training, No College Required.

Private Detectives and Investigators (SOC: 33-9021)
Gather, analyze, compile and report information regarding individuals or organizations to clients, or detect occurrences of unlawful acts or infractions of rules in private establishment. On-The-Job Training, No College Required.

Security Guards (SOC: 33-9032)
Guard, patrol, or monitor premises to prevent theft, violence, or infractions of rules. May operate x-ray and metal detector equipment. On-The-Job Training, No College Required.

Administration of Justice

Certificates and Degrees	TOP Codes	Moreno Valley	Norco	Riverside
Administration of Justice	210500, 210550	● ◇		● ◇
AOJ/Basic Correctional Deputy Academy	210510	✛		
AOJ/Basic Public Safety Dispatch Course	219900	✛		
Crime Scene Investigation	210540		✛	✛
Investigative Assistant	210540			✛
Law Enforcement	210500, 210550	● ◇		
Victim Services Aide	210500			✛

✛ Locally Approved Certificate   ● State Approved Certificate   ◇ Associates Degree

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
19-4092	Forensic Science Technicians	276	305	29	11%	$22.40	$29.62	$43.08
33-3011	Bailiffs	15	16	1	7%	$12.66	$22.08	$39.39
33-3012	Correctional Officers and Jailers	4,741	4,663	(78)	(2%)	$24.75	$36.41	$39.19
33-3021	Detectives and Criminal Investigators	1,164	1,119	(45)	(4%)	$37.25	$46.13	$55.32
33-3051	Police and Sheriff's Patrol Officers	6,006	6,079	73	1%	$30.08	$41.31	$55.84
33-9021	Private Detectives and Investigators	291	277	(14)	(5%)	$17.47	$20.83	$29.32
33-9032	Security Guards	12,742	15,681	2,939	23%	$9.29	$11.22	$17.30
	Total	25,235	28,139	2,904	12%	$17.71	$23.65	$31.21

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
19-4092	Forensic Science Technicians	305	348	43	14%	23
33-3011	Bailiffs	16	21	5	31%	Insf. Data
33-3012	Correctional Officers and Jailers	4,663	4,931	268	6%	187
33-3021	Detectives and Criminal Investigators	1,119	1,164	45	4%	37
33-3051	Police and Sheriff's Patrol Officers	6,079	6,502	423	7%	294
33-9021	Private Detectives and Investigators	277	300	23	8%	14
33-9032	Security Guards	15,681	18,137	2,456	16%	734
	Total	28,139	31,404	3,265	12%	1,290

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
33-9032	Security Guards	1,727
33-3051	Police and Sheriff's Patrol Officers	177
33-3012	Correctional Officers and Jailers	94
33-9021	Private Detectives and Investigators	83
33-3021	Detectives and Criminal Investigators	46
19-4092	Forensic Science Technicians	8
	Total	2,135

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
561612	Security Guards and Patrol Services	10,043	12,344	2,301	23%
903999	Local Government, Excluding Education and Hospitals	9,707	10,341	634	7%
902999	State Government, Excluding Education and Hospitals	2,074	2,172	98	5%
901199	Federal Government, Civilian, Excluding Postal Service	580	584	4	1%
903611	Elementary and Secondary Schools (Local Government)	517	548	31	6%
561613	Armored Car Services	450	385	(65)	(14%)
561611	Investigation Services	409	190	(219)	(54%)
561210	Facilities Support Services	372	441	69	19%
622110	General Medical and Surgical Hospitals	325	375	50	15%
611310	Colleges, Universities, and Professional Schools	293	375	82	28%
903612	Colleges, Universities, and Professional Schools (Local Government)	286	311	25	9%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	162	18	180	60
Norco College	21	17	38	13
Riverside	149	94	243	81
RCCD Total	**332**	**129**	**461**	**154**
Barstow	8	49	57	19
Chaffey	69	164	233	78
Desert	109	111	220	73
Copper Mountain		43	43	14
Mt. San Jacinto	64	136	200	67
Palo Verde	8	5	13	4
San Bernardino	78	144	222	74
Victor Valley	6	162	168	56
Other Community Colleges Total	**342**	**814**	**1156**	**385**
Grand Total	**674**	**943**	**1617**	**539**

Source: Data Mart

There were 752 completions from other institutions in the region between 2011 -2014. They included:
ITT Tech-San Bernardino
Kaplan - Palm Springs
Kaplan – Riverside
Platt College Ontario/Riverside
San Joaquin College
Westwood College

Air Conditioning and Refrigeration

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Air Conditioning and Refrigeration is 094600.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Heating, Ventilation, Air Conditioning and Refrigeration Engineering Technology/Technician is 150501.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Air Conditioning and Refrigeration is: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (SOC: 49-9021)

Background Information: Air Conditioning and Refrigeration Occupations

Heating, Air Conditioning, and Refrigeration Mechanics and Installers (SOC: 49-9021)
Install or repair heating, central air conditioning, or refrigeration systems, including oil burners, hot-air furnaces, and heating stoves. Requires a Postsecondary Non-Degree Award.

Air Conditioning and Refrigeration

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Air Conditioning and Refrigeration	094600			● ◇

✚ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2,625	3,550	925	35%	$14.93	$22.79	$30.24
	Total	2,625	3,550	925	35%	$14.93	$22.79	$30.24

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	3,550	4,006	456	13%	154
	Total	3,550	4,006	456	13%	154

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)	319
	Total	319

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
238220	Plumbing, Heating, and Air-Conditioning Contractors	2,273	2,641	368	16%
238210	Electrical Contractors and Other Wiring Installation Contractors	97	106	9	9%
811310	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	94	98	4	4%
236118	Residential Remodelers	73	73	0	0%
238910	Site Preparation Contractors	46	46	0	0%
236115	New Single-Family Housing Construction (except For-Sale Builders)	41	40	(1)	(2%)
423720	Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers	36	41	5	14%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	-	-	-	-
Riverside	109	19	128	43
RCCD Total	**109**	**19**	**128**	**43**
Desert	41	10	51	17
San Bernardino	28	5	33	11
Other Community Colleges Total	**69**	**15**	**84**	**28**
Grand Total	**178**	**34**	**212**	**71**

Source: DataMart

Applied Digital Media and Printing

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to the Applied Digital Media and Printing discipline are 061400, 061450, and 103000.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Applied Digital Media and Printing discipline are 100303 and 500409.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Applied Digital Media and Printing are: Art Directors (SOC: 27-1011), Multimedia Artists and Animators (SOC: 27-1014), Graphic Designers (SOC: 27-1024), Desktop Publishers (SOC: 43-9031) Prepress Technicians and Workers (SOC: 51-5111), Printing Press Operators (SOC: 51-5112).

Background Information: Applied Digital Media and Printing Occupations

Art Directors (SOC: 27-1011)
Formulate design concepts and presentation approaches for visual communications media, such as print, broadcasting, and advertising. Direct workers engaged in art work or layout design. Requires a Bachelor's or Higher.

Multimedia Artists and Animators (SOC: 27-1014)
Create special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in products or creations, such as computer games, movies, music videos, and commercials. Requires a Bachelor's or Higher.

Graphic Designers (SOC: 27-1024)
Design or create graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. May use a variety of mediums to achieve artistic or decorative effects. Requires a Bachelor's or Higher.

Desktop Publishers (SOC: 43-9031)
Format typescript and graphic elements using computer software to produce publication-ready material. Requires an Associate's Degree.

Prepress Technicians and Workers (SOC: 51-5111)
Format and proof text and images submitted by designers and clients into finished pages that can be printed. Includes digital and photo typesetting. May produce printing plates. Requires a Postsecondary Non-Degree Award.

Printing Press Operators (SOC: 51-5112)
Set up and operate digital, letterpress, lithographic, flexographic, gravure, or other printing machines. Includes short-run offset printing presses. On-The-Job Training, No College Required.

Applied Digital Media and Printing

Certificates and Degrees	TOP Codes	Moreno Valley	Norco	Riverside
Applied Digital Media and Printing	061400			● ◇
Basic Graphic Communication	103000			✚
Basic Graphic Design	103000			✚
Electronic Publishing and Design	061450			✚
Motion Graphics and 3D Animation	103000			✚

✚ *Locally Approved Certificate*　● *State Approved Certificate*　◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
27-1011	Art Directors	346	375	29	8%	$13.46	$19.62	$33.68
27-1014	Multimedia Artists and Animators	261	280	19	7%	$9.18	$13.02	$18.13
27-1024	Graphic Designers	2,093	2,180	87	4%	$14.22	$18.81	$25.91
43-9031	Desktop Publishers	62	58	(4)	(6%)	$17.74	$24.02	$32.78
51-5111	Prepress Technicians and Workers	255	240	(15)	(6%)	$10.26	$14.93	$28.63
51-5112	Printing Press Operators	1,015	1,015	0	0%	$9.98	$16.24	$24.82
	Total	4,032	4,148	116	3%	$12.60	$17.71	$26.08

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
27-1011	Art Directors	375	391	16	4%	11
27-1014	Multimedia Artists and Animators	280	286	6	2%	7
27-1024	Graphic Designers	2,180	2,254	74	3%	69
43-9031	Desktop Publishers	58	54	(4)	(7%)	Insf. Data
51-5111	Prepress Technicians and Workers	240	201	(39)	(16%)	3
51-5112	Printing Press Operators	1,015	944	(71)	(7%)	17
	Total	4,148	4,130	(18)	(0%)	108

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
27-1024	Graphic Designers	140
51-5112	Printing Press Operators	76
51-5111	Prepress Technicians and Workers	24
27-1014	Multimedia Artists and Animators	17
27-1011	Art Directors	6
43-9031	Desktop Publishers	1
	Total	264

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
323111	Commercial Printing (except Screen and Books)	556	425	(131)	(24%)
541430	Graphic Design Services	431	447	16	4%
541410	Interior Design Services	326	334	8	2%
323113	Commercial Screen Printing	153	188	35	23%
711510	Independent Artists, Writers, and Performers	142	139	(3)	(2%)
323120	Support Activities for Printing	105	81	(24)	(23%)
511110	Newspaper Publishers	92	45	(47)	(51%)
541810	Advertising Agencies	68	78	10	15%
541420	Industrial Design Services	60	67	7	12%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	4	1	5	2
Riverside	97	22	119	40
RCCD Total	**101**	**23**	**124**	**42**
San Bernardino	11	23	34	11
Other Community Colleges Total	**11**	**23**	**34**	**11**
Grand Total	112	46	158	53

Source: DataMart

There were 133 completions from other institutions in the region between 2011-2014. They included:
ITT Tech-San Bernardino
Westwood College- Inland Empire
The Art Institute of California-Argosy University

Architecture

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Architecture is 020100.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Architecture is 04090.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Architecture are: Architectural and Civil Drafters (SOC: 17-3011), Engineering Technicians, Except Drafters, All Other (SOC: 17-3029), Commercial and Industrial Designers (SOC: 27-1021).

Background Information: Architecture Occupations

Architectural and Civil Drafters (SOC: 17-3011)
Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Use knowledge of building materials, engineering practices, and mathematics to complete drawings. Requires an Associate's Degree.

Engineering Technicians, Except Drafters, All Other (SOC: 17-3029)
All engineering technicians, except drafters, not listed separately. Requires an Associate's Degree.

Commercial and Industrial Designers (SOC: 27-1021)
Develop and design manufactured products, such as cars, home appliances, and children's toys. Combine artistic talent with research on product use, marketing, and materials to create the most functional and appealing product design. Requires a Bachelor's or Higher.

Architecture

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Architectural Graphics	020100		✚	

✚ *Locally Approved Certificate*　●*State Approved Certificate*　◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
17-3011	Architectural and Civil Drafters	664	749	85	13%	$14.24	$26.08	$38.97
17-3029	Engineering Technicians, Except Drafters, All Other	661	686	25	4%	$23.11	$32.14	$41.73
27-1021	Commercial and Industrial Designers	382	424	42	11%	$18.35	$23.67	$37.31
	Total	1,708	1,860	152	9%	$18.48	1,708	1,860

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
17-3011	Architectural and Civil Drafters	749	733	(16)	(2%)	10
17-3029	Engineering Technicians, Except Drafters, All Other	686	702	16	2%	21
27-1021	Commercial and Industrial Designers	424	436	12	3%	13
	Total	1,860	1,871	11	1%	43

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
17-3029	Engineering Technicians, Except Drafters, All Other	239
27-1021	Commercial and Industrial Designers	161
17-3011	Architectural and Civil Drafters	23
	Total	423

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
541330	Engineering Services	206	188	(18)	(9%)
901199	Federal Government, Civilian, Excluding Postal Service	158	153	(5)	(3%)
541310	Architectural Services	132	137	5	4%
541320	Landscape Architectural Services	84	84	0	0%
903999	Local Government, Excluding Education and Hospitals	85	88	3	4%
541430	Graphic Design Services	63	65	2	3%
541370	Surveying and Mapping (except Geophysical) Services	51	51	0	0%
541410	Interior Design Services	47	48	1	2%
541350	Building Inspection Services	50	49	(1)	(2%)
551114	Corporate, Subsidiary, and Regional Managing Offices	28	28	0	0%
902999	State Government, Excluding Education and Hospitals	26	27	1	4%
541340	Drafting Services	26	26	0	0%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Norco College	47	15	147	29
Riverside	0	2	2	1
RCCD Total	**47**	**17**	**149**	**30**
Desert	2	26	28	9
San Bernardino	1	1	2	1
Other Community Colleges Total	**3**	**27**	**30**	**10**
Grand Total	**50**	**44**	**179**	**40**

Source: DataMart

Automotive Technology

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Automotive Technology are 094800, 094900, and 094910.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Automotive Technology are 470603, 480303, and 470604.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Automotive Technology are: First-Line Supervisors of Mechanics, Installers, and Repairers (SOC: 49-1011), Electrical and Electronics Installers and Repairers, Transportation Equipment (SOC: 49-2093), Electronic Equipment Installers and Repairers, Motor Vehicles (SOC: 49-2096), Automotive Body and Related Repairers (SOC: 49-3021), Automotive Glass Installers and Repairers (SOC: 49-3022), Automotive Service Technicians and Mechanics (SOC: 49-3023), Recreational Vehicle Service Technicians (SOC: 49-3092), Upholsterers (SOC: 51-6093) Coating, Painting, and Spraying Machine Setters, Operators, and Tenders (SOC: 51-9121), Painters, Transportation Equipment (SOC: 51-9122).

Background Information: Automotive Occupations

First-Line Supervisors of Mechanics, Installers, and Repairers (SOC: 49-1011)
Directly supervise and coordinate the activities of mechanics, installers, and repairers. On-The-Job Training, No College Required.

Electrical and Electronics Installers and Repairers, Transportation Equipment (SOC: 49-2093)
Install, adjust, or maintain mobile electronics communication equipment, including sound, sonar, security, navigation, and surveillance systems on trains, watercraft, or other mobile equipment. Requires a Postsecondary Non-Degree Award.

Electronic Equipment Installers and Repairers, Motor Vehicles (SOC: 49-2096)
Install, diagnose, or repair communications, sound, security, or navigation equipment in motor vehicles. Requires a Postsecondary Non-Degree Award.

Automotive Body and Related Repairers (SOC: 49-3021)
Repair and refinish automotive vehicle bodies and straighten vehicle frames. On-The-Job Training, No College Required.

Automotive Glass Installers and Repairers (SOC: 49-3022)
Replace or repair broken windshields and window glass in motor vehicles. On-The-Job Training, No College Required.

Automotive Service Technicians and Mechanics (SOC: 49-3023)
Diagnose, adjust, repair, or overhaul automotive vehicles. On-The-Job Training, No College Required.

Recreational Vehicle Service Technicians (SOC: 49-3092)
Diagnose, inspect, adjust, repair, or overhaul recreational vehicles including travel trailers. May specialize in maintaining gas, electrical, hydraulic, plumbing, or chassis/towing systems as well as repairing generators, appliances, and interior components. Includes workers who perform customized van conversions. On-The-Job Training, No College Required.

Upholsterers (SOC: 51-6093)
Make, repair, or replace upholstery for household furniture or transportation vehicles. On-The-Job Training, No College Required.

Coating, Painting, and Spraying Machine Setters, Operators, and Tenders (SOC: 51-9121)
Set up, operate, or tend machines to coat or paint any of a wide variety of products, including glassware, cloth, ceramics, metal, plastic, paper, or wood, with lacquer, silver, copper, rubber, varnish, glaze, enamel, oil, or rust-proofing materials. On-The-Job Training, No College Required.

Painters, Transportation Equipment (SOC: 51-9122)
Operate or tend painting machines to paint surfaces of transportation equipment, such as automobiles, buses, trucks, trains, boats, and airplanes. Includes painters in auto body repair facilities. On-The-Job Training, No College Required.

Automotive Technology

Certificates and Degrees	TOP Codes	Moreno Valley	Norco	Riverside
Automotive Collision Repair – Refinishing and Paint	094900			● ◇
Automotive Trim and Upholstery	094910			● ◇
Electrical	094800			● ◇
Ford Specialty	094800			● ◇
General Motors Specialty	094800			◇
Mechanical	094800			● ◇

✚ *Locally Approved Certificate*　　● *State Approved Certificate*　　◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	3,512	4,041	529	15%	$22.48	$32.58	$46.15
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	141	155	14	10%	$19.56	$24.20	$34.73
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	188	177	(11)	(6%)	$9.13	$15.19	$25.04
49-3021	Automotive Body and Related Repairers	1,441	1,575	134	9%	$12.37	$16.45	$28.76
49-3022	Automotive Glass Installers and Repairers	179	206	27	15%	$10.41	$13.68	$18.99
49-3023	Automotive Service Technicians and Mechanics	9,278	10,907	1,629	18%	$9.96	$15.53	$26.61
49-3092	Recreational Vehicle Service Technicians	161	190	29	18%	$11.16	$18.02	$29.82
51-6093	Upholsterers	495	595	100	20%	$10.43	$13.91	$19.38
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	989	1,174	185	19%	$9.61	$16.38	$25.68
51-9122	Painters, Transportation Equipment	525	652	127	24%	$11.80	$18.19	$29.79
	Total	16,910	19,673	2,763	16%	$12.84	$19.24	$30.60

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	4,041	4,376	335	8%	153
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	155	162	7	5%	5
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	177	145	(32)	(18%)	3
49-3021	Automotive Body and Related Repairers	1,575	1,573	(2)	(0%)	55
49-3022	Automotive Glass Installers and Repairers	206	203	(3)	(1%)	5
49-3023	Automotive Service Technicians and Mechanics	10,907	11,671	764	7%	462
49-3092	Recreational Vehicle Service Technicians	190	190	0	0%	9
51-6093	Upholsterers	595	594	(1)	(0%)	23
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1,174	1,120	(54)	(5%)	28
51-9122	Painters, Transportation Equipment	652	627	(25)	(4%)	17
	Total	19,673	20,661	988	5%	760

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	568
49-3023	Automotive Service Technicians and Mechanics	318
49-3021	Automotive Body and Related Repairers	78
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	24
51-9122	Painters, Transportation Equipment	14
51-6093	Upholsterers	7
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	5
49-3092	Recreational Vehicle Service Technicians	3
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	2
49-3022	Automotive Glass Installers and Repairers	1
	Total	1,020

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
811111	General Automotive Repair	4,262	4,455	193	5%
441110	New Car Dealers	2,905	3,189	284	10%
811121	Automotive Body, Paint, and Interior Repair and Maintenance	2,084	1,977	(107)	(5%)
441310	Automotive Parts and Accessories Stores	740	772	32	4%
441120	Used Car Dealers	373	484	111	30%
441320	Tire Dealers	345	371	26	8%
811113	Automotive Transmission Repair	278	259	(19)	(7%)
811122	Automotive Glass Replacement Shops	257	281	24	9%
811191	Automotive Oil Change and Lubrication Shops	249	272	23	9%
811192	Car Washes	213	255	42	20%
423120	Motor Vehicle Supplies and New Parts Merchant Wholesalers	203	230	27	13%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	-	-	-	-
Riverside	113	52	165	55
RDDC Total	**113**	**52**	**165**	**55**
Barstow	3	12	15	5
Chaffey	120	26	146	49
Desert	62	7	69	23
Copper Mountain	0	10	10	3
Mt. San Jacinto	27	16	43	14
Palo Verde	32	2	34	11
San Bernardino	131	9	140	47
Victor Valley	66	14	80	27
Other Community Colleges Total	**441**	**96**	**537**	**179**
Grand Total	**554**	**148**	**702**	**234**

Source: DataMart

Between 2011 & 2014 there were 3,481 completions at
Universal Technical Institute.

Bank Operations

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Bank Operations is 050400.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Bank Operations is 520803.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Bank Operations are: Credit Counselors (SOC: 13-2071), Bill and Account Collectors (SOC: 43-3011), Tellers (SOC: 43-3071), Credit Authorizers, Checkers, and Clerks (SOC: 43-4041), Loan Interviewers and Clerks (SOC: 43-4131), New Accounts Clerks (SOC: 43-4141), Statistical Assistants (SOC: 43-9111)

Background Information: Bank Operations Occupations

Credit Counselors (SOC: 13-2071)
Advise and educate individuals or organizations on acquiring and managing debt. May provide guidance in determining the best type of loan and explaining loan requirements or restrictions. May help develop debt management plans, advise on credit issues, or provide budget, mortgage, and bankruptcy counseling. Requires a Bachelor's or Higher.

Bill and Account Collectors (SOC: 43-3011)
Locate and notify customers of delinquent accounts by mail, telephone, or personal visit to solicit payment. Duties include receiving payment and posting amount to customer's account; preparing statements to credit department if customer fails to respond; initiating repossession proceedings or service disconnection; and keeping records of collection and status of accounts. On-The-Job Training, No College Required.

Tellers (SOC: 43-3071)
Receive and pay out money. Keep records of money and negotiable instruments involved in a financial institution's various transactions. On-The-Job Training, No College Required.

Credit Authorizers, Checkers, and Clerks (SOC: 43-4041)
Authorize credit charges against customers' accounts. Investigate history and credit standing of individuals or business establishments applying for credit. May interview applicants to obtain personal and financial data; determine credit worthiness; process applications; and notify customers of acceptance or rejection of credit. On-The-Job Training, No College Required.

Loan Interviewers and Clerks (SOC: 43-4131)
Interview loan applicants to elicit information; investigate applicants' backgrounds and verify references; prepare loan request papers; and forward findings, reports, and documents to appraisal department. Review loan papers to ensure completeness, and complete transactions between loan establishment, borrowers, and sellers upon approval of loan. On-The-Job Training, No College Required.

New Accounts Clerks (SOC: 43-4141)
Interview persons desiring to open accounts in financial institutions. Explain account services available to prospective customers and assist them in preparing applications. On-The-Job Training, No College Required.

Statistical Assistants (SOC: 43-9111)
Compile and compute data according to statistical formulas for use in statistical studies. May perform actuarial computations and compile charts and graphs for use by actuaries. Includes actuarial clerks. Requires a Bachelor's or Higher.

Bank Operations

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Banking Operations	050400			✚

✚ Locally Approved Certificate   ● State Approved Certificate   ◇Associates Degree

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
13-2071	Credit Counselors	385	441	56	15%	$15.62	$21.81	$29.27
43-3011	Bill and Account Collectors	3,103	3,393	290	9%	$11.43	$15.83	$23.13
43-3071	Tellers	4,126	3,805	(321)	(8%)	$10.37	$13.75	$18.91
43-4041	Credit Authorizers, Checkers, and Clerks	183	189	6	3%	$10.79	$14.61	$24.03
43-4131	Loan Interviewers and Clerks	1,350	1,441	91	7%	$13.67	$19.46	$27.68
43-4141	New Accounts Clerks	235	201	(34)	(14%)	$12.49	$17.45	$22.97
43-9111	Statistical Assistants	45	43	(2)	(4%)	$15.69	$18.67	$28.91
	Total	9,427	9,513	86	1%	$11.56	$15.83	$22.42

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
13-2071	Credit Counselors	441	495	54	12%	19
43-3011	Bill and Account Collectors	3,393	3,460	67	2%	99
43-3071	Tellers	3,805	3,631	(174)	(5%)	143
43-4041	Credit Authorizers, Checkers, and Clerks	189	202	13	7%	4
43-4131	Loan Interviewers and Clerks	1,441	1,505	64	4%	40
43-4141	New Accounts Clerks	201	191	(10)	(5%)	5
43-9111	Statistical Assistants	43	44	1	2%	2
	Total	9,513	9,527	14	0%	312

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
43-3071	Tellers	943
43-3011	Bill and Account Collectors	434
43-4131	Loan Interviewers and Clerks	215
13-2071	Credit Counselors	71
43-4041	Credit Authorizers, Checkers, and Clerks	33
43-9111	Statistical Assistants	1
	Total	1,697

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
522110	Commercial Banking	2,319	2,286	(33)	(1%)
522292	Real Estate Credit	821	844	23	3%
522120	Savings Institutions	850	593	(257)	(30%)
522130	Credit Unions	635	671	36	6%
522310	Mortgage and Nonmortgage Loan Brokers	353	434	81	23%
621111	Offices of Physicians (except Mental Health Specialists)	360	400	40	11%
551114	Corporate, Subsidiary, and Regional Managing Offices	234	234	0	0%
622110	General Medical and Surgical Hospitals	168	184	16	10%
561110	Office Administrative Services	170	184	14	8%
561440	Collection Agencies	172	153	(19)	(11%)
561431	Private Mail Centers	108	100	(8)	(7%)
522291	Consumer Lending	96	63	(33)	(34%)
903999	Local Government, Excluding Education and Hospitals	92	93	1	1%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	-	-	-	-
Riverside	1	2	3	1
Total	**1**	**2**	**3**	**1**

Source: DataMart

Between 2011 and 2013 there were 43 completions at the
Riverside County Office of Education.

Business Administration

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Business Administration are 050200, 050400, 050100, 050600, 051000, 050900, 051100, 050640, 051200, 050800, 059900, and 050210.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Business Administration are 520302, 520803, 520101, 520203, 521801, 521501, 520703, 521701, 521101, 529999, and 521601.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Business Administration are: General and Operations Managers (SOC: 11-1021), Sales Managers (SOC: 11-2022), Administrative Services Managers (SOC: 11-3011), Industrial Production Managers (SOC: 11-3051), Transportation, Storage, and Distribution Managers (SOC: 11-3071), Property, Real Estate, and Community Association Managers (SOC: 11-9141), Managers, All Other (SOC: 11-9199), Wholesale and Retail Buyers, Except Farm Products (SOC: 13-1022), Purchasing Agents, Except Wholesale, Retail, and Farm Products (SOC: 13-1023), Claims Adjusters, Examiners, and, Investigators (SOC: 13-1031), Insurance Appraisers, Auto Damage (SOC: 13-1032), Cost Estimators (SOC: 13-1051), Logisticians (SOC: 13-1081), Management Analysts (SOC: 13-1111), Business Operations Specialists, All Other (SOC: 13-1199), Accountants and Auditors (SOC: 13-2011), Appraisers and Assessors of Real Estate (SOC: 13-2021), Insurance Underwriters (SOC: 13-2053), Financial Examiners (SOC: 13-2061), Credit Counselors (SOC: 13-2071), Tax Examiners and Collectors, and Revenue Agents (SOC: 13-2081), Tax Preparers (SOC: 13-2082)

Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products (SOC: 41-4011), Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products (SOC: 41-4012), Insurance Sales Agents (SOC: 41-3021), Real Estate Brokers (SOC: 41-9021), Real Estate Sales Agents (SOC: 41-9022), Bill and Account Collectors (SOC: 43-3011), Bookkeeping, Accounting, and Auditing Clerks (SOC: 43-3031), Payroll and Timekeeping Clerks (SOC: 43-3051), Tellers (SOC: 43-3071), Brokerage Clerks (SOC: 43-4011), Credit Authorizers, Checkers, and Clerks (SOC: 43-4041), Loan Interviewers and Clerks (SOC: 43-4131), New Accounts Clerks (SOC: 43-4141), Cargo and Freight Agents (SOC: 43-5011), Production, Planning, and Expediting Clerks (SOC: 43-5061), Statistical Assistants (SOC: 43-9111), First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators (SOC: 53-1031)

Background Information: Business Administration Occupations

General and Operations Managers (SOC: 11-1021)
Plan, direct, or coordinate the operations of public or private sector organizations. Duties and responsibilities include formulating policies, managing daily operations, and planning the use of materials and human resources, but are too diverse and general in nature to be classified in any one functional area of management or administration, such as personnel, purchasing, or administrative services. Requires a Bachelor's or Higher.

Sales Managers (SOC: 11-2022)
Plan, direct, or coordinate the actual distribution or movement of a product or service to the customer. Coordinate sales distribution by establishing sales territories, quotas, and goals and establish training programs for sales representatives. Analyze sales statistics gathered by staff to determine sales potential and inventory requirements and monitor the preferences of customers. Requires a Bachelor's or Higher.

Administrative Services Managers (SOC: 11-3011)
Plan, direct, or coordinate one or more administrative services of an organization, such as records and information management, mail distribution, facilities planning and maintenance, custodial operations, and other office support services. Requires a Bachelor's or Higher.

Industrial Production Managers (SOC: 11-3051)
Plan, direct, or coordinate the work activities and resources necessary for manufacturing products in accordance with cost, quality, and quantity specifications. Requires a Bachelor's or Higher.

Transportation, Storage, and Distribution Managers (SOC: 11-3071)
Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with organizational policies and applicable government laws or regulations. Includes logistics managers. On-The-Job Training, No College Required.

Property, Real Estate, and Community Association Managers (SOC: 11-9141)
Plan, direct, or coordinate the selling, buying, leasing, or governance activities of commercial, industrial, or residential real estate properties. Includes managers of homeowner and condominium associations, rented or leased housing units, buildings, or land (including rights-of-way). On-The-Job Training, No College Required.

Managers, All Other (SOC: 11-9199)
All managers not listed separately. On-The-Job Training, No College Required.

Wholesale and Retail Buyers, Except Farm Products (SOC: 13-1022)
Buy merchandise or commodities, other than farm products, for resale to consumers at the wholesale or retail level, including both durable and nondurable goods. Analyze past buying trends, sales records, price, and quality of merchandise to determine value and yield. Select, order, and authorize payment for merchandise according to contractual agreements. May conduct meetings with sales personnel and introduce new products. Includes assistant wholesale and retail buyers of nonfarm products. On-The-Job Training, No College Required.

Purchasing Agents, Except Wholesale, Retail, and Farm Products (SOC: 13-1023)
Purchase machinery, equipment, tools, parts, supplies, or services necessary for the operation of an establishment. Purchase raw or semi-finished materials for manufacturing. On-The-Job Training, No College Required.

Claims Adjusters, Examiners, and Investigators (SOC: 13-1031)
Review settled claims to determine that payments and settlements are made in accordance with company practices and procedures. Confer with legal counsel on claims requiring litigation. May also settle insurance claims. On-The-Job Training, No College Required.

Insurance Appraisers, Auto Damage (SOC: 13-1032)
Appraise automobile or other vehicle damage to determine repair costs for insurance claim settlement. Prepare insurance forms to indicate repair cost or cost estimates and recommendations. May seek agreement with automotive repair shop on repair costs. Requires a Postsecondary Non-Degree Award.

Cost Estimators (SOC: 13-1051)
Prepare cost estimates for product manufacturing, construction projects, or services to aid management in bidding on or determining price of product or service. May specialize according to particular service performed or type of product manufactured. Requires a Bachelor's or Higher.

Logisticians (SOC: 13-1081)
Analyze and coordinate the logistical functions of a firm or organization. Responsible for the entire life cycle of a product, including acquisition, distribution, internal allocation, delivery, and final disposal of resources. Requires a Bachelor's or Higher.

Management Analysts (SOC: 13-1111)
Conduct organizational studies and evaluations, design systems and procedures, conduct work simplification and measurement studies, and prepare operations and procedures manuals to assist management in operating more efficiently and effectively. Includes program analysts and management consultants. Requires a Bachelor's or Higher.

Business Operations Specialists, All Other (SOC: 13-1199)
All business operations specialists not listed separately. On-The-Job Training, No College Required

Accountants and Auditors (SOC: 13-2011)
Examine, analyze, and interpret accounting records to prepare financial statements, give advice, or audit and evaluate statements prepared by others. Install or advise on systems of recording costs or other financial and budgetary data. Requires a Bachelor's or Higher.

Appraisers and Assessors of Real Estate (SOC: 13-2021)
Appraise real property and estimate its fair value. May assess taxes in accordance with prescribed schedules. Requires a Bachelor's or Higher.

Insurance Underwriters (SOC: 13-2053)
Review individual applications for insurance to evaluate degree of risk involved and determine acceptance of applications. Requires a Bachelor's or Higher.

Financial Examiners (SOC: 13-2061)
Enforce or ensure compliance with laws and regulations governing financial and securities institutions and financial and real estate transactions. May examine, verify, or authenticate records. Requires a Bachelor's or Higher.

Credit Counselors (SOC: 13-2071)
Advise and educate individuals or organizations on acquiring and managing debt. May provide guidance in determining the best type of loan and explaining loan requirements or restrictions. May help develop debt management plans, advise on credit issues, or provide budget, mortgage, and bankruptcy counseling. Requires a Bachelor's or Higher.

Tax Examiners and Collectors, and Revenue Agents (SOC: 13-2081)
Determine tax liability or collect taxes from individuals or business firms according to prescribed laws and regulations. Requires a Bachelor's or Higher.

Tax Preparers (SOC: 13-2082)
Prepare tax returns for individuals or small businesses. On-The-Job Training, No College Required.

Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products (SOC: 41-4011)
Sell goods for wholesalers or manufacturers where technical or scientific knowledge is required in such areas as biology, engineering, chemistry, and electronics, normally obtained from at least 2 years of post-secondary education. Requires a Bachelor's or Higher.

Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products (SOC: 41-4012)
Sell goods for wholesalers or manufacturers to businesses or groups of individuals. Work requires substantial knowledge of items sold. On-The-Job Training, No College Required.

Insurance Sales Agents (SOC: 41-3021)
Sell life, property, casualty, health, automotive, or other types of insurance. May refer clients to independent brokers, work as an independent broker, or be employed by an insurance company. On-The-Job Training, No College Required.

Real Estate Brokers (SOC: 41-9021)
Operate real estate office, or work for commercial real estate firm, overseeing real estate transactions. Other duties usually include selling real estate or renting properties and arranging loans. On-The-Job Training, No College Required.

Real Estate Sales Agents (SOC: 41-9022)
Rent, buy, or sell property for clients. Perform duties, such as study property listings, interview prospective clients, accompany clients to property site, discuss conditions of sale, and draw up real estate contracts. Includes agents who represent buyer. On-The-Job Training, No College Required.

Bill and Account Collectors (SOC: 43-3011)
Locate and notify customers of delinquent accounts by mail, telephone, or personal visit to solicit payment. Duties include receiving payment and posting amount to customer's account; preparing statements to credit department if customer fails to respond; initiating repossession proceedings or service disconnection; and keeping records of collection and status of accounts. On-The-Job Training, No College Required.

Bookkeeping, Accounting, and Auditing Clerks (SOC: 43-3031)
Compute, classify, and record numerical data to keep financial records complete. Perform any combination of routine calculating, posting, and verifying duties to obtain primary financial data for use in maintaining accounting records. May also check the accuracy of figures, calculations, and postings pertaining to business transactions recorded by other workers. On-The-Job Training, No College Required.

Payroll and Timekeeping Clerks (SOC: 43-3051)
Compile and record employee time and payroll data. May compute employees' time worked, production, and commission. May compute and post wages and deductions, or prepare paychecks. On-The-Job Training, No College Required.

Tellers (SOC: 43-3071)
Receive and pay out money. Keep records of money and negotiable instruments involved in a financial institution's various transactions. On-The-Job Training, No College Required.

Brokerage Clerks (SOC: 43-4011)
Perform duties related to the purchase, sale or holding of securities. Duties include writing orders for stock purchases or sales, computing transfer taxes, verifying stock transactions, accepting and delivering securities, tracking stock price fluctuations, computing equity, distributing dividends, and keeping records of daily transactions and holdings. On-The-Job Training, No College Required.

Credit Authorizers, Checkers, and Clerks (SOC: 43-4041)
Authorize credit charges against customers' accounts. Investigate history and credit standing of individuals or business establishments applying for credit. May interview applicants to obtain personal and financial data; determine credit worthiness; process applications; and notify customers of acceptance or rejection of credit. On-The-Job Training, No College Required.

Loan Interviewers and Clerks (SOC: 43-4131)
Interview loan applicants to elicit information; investigate applicants' backgrounds and verify references; prepare loan request papers; and forward findings, reports, and documents to appraisal department. Review loan papers to ensure completeness, and complete transactions between loan establishment, borrowers, and sellers upon approval of loan. On-The-Job Training, No College Required.

New Accounts Clerks (SOC: 43-4141)
Interview persons desiring to open accounts in financial institutions. Explain account services available to prospective customers and assist them in preparing applications. On-The-Job Training, No College Required.

Cargo and Freight Agents (SOC: 43-5011)
Expedite and route movement of incoming and outgoing cargo and freight shipments in airline, train, and trucking terminals, and shipping docks. Take orders from customers and arrange pickup of freight and cargo for delivery to loading platform. Prepare and examine bills of lading to determine shipping charges and tariffs. On-The-Job Training, No College Required.

Production, Planning, and Expediting Clerks (SOC: 43-5061)
Coordinate and expedite the flow of work and materials within or between departments of an establishment according to production schedule. Duties include reviewing and distributing production, work, and shipment schedules; conferring with department supervisors to determine progress of work and completion dates; and compiling reports on progress of work, inventory levels, costs, and production problems. On-The-Job Training, No College Required.

Statistical Assistants (SOC: 43-9111)
Compile and compute data according to statistical formulas for use in statistical studies. May perform actuarial computations and compile charts and graphs for use by actuaries. Includes actuarial clerks. Requires a Bachelor's or Higher.

First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators (SOC: 53-1031)
Directly supervise and coordinate activities of transportation and material-moving machine and vehicle operators and helpers. On-The-Job Training, No College Required.

Business Administration

Certificates and Degrees	TOP Codes	Moreno Valley	Norco	Riverside
Accounting Concentration	050200	◇ ●	◇ ●	◇ ●
Banking and Finance Concentration	050400			◇ ●
General Business Concentration	050100	◇ ●	◇ ●	◇ ●
Human Resources Concentration	050600			◇ ●
Logistics Management Concentration	051000		◇ ●	
Management Concentration	050600	◇ ●	◇ ●	◇ ●
Marketing Concentration	050900	◇ ●	◇ ●	◇ ●
Real Estate Concentration	051100	◇ ●	◇ ●	◇ ●
Entrepreneurship	050640			◇ ●
Entrepreneurship: Getting Started	050640		✚	
Insurance	051200			◇ ●
International Business	050800			✚
Operations and Production Management	059900			✚
Real Estate Sales Person and Transaction	051100		✚	
Registered and Small Business Income Tax Preparer	050210		✚	
Small Business Accounting	050200	✚	✚	✚
Small Business Payroll Accounting	050200	✚	✚	✚

✚ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇ *Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
11-1021	General and Operations Managers	17,200	20,659	3,459	20%	$22.16	$41.97	$89.04
11-2021	Marketing Managers	939	1,025	86	9%	$25.65	$48.28	$92.27
11-2022	Sales Managers	3,929	4,512	583	15%	$20.66	$44.35	$90.12
11-3011	Administrative Services Managers	2,088	2,418	330	16%	$20.39	$36.52	$66.25
11-3031	Financial Managers	3,930	4,207	277	7%	$29.91	$49.42	$80.97
11-3051	Industrial Production Managers	1,282	1,448	166	13%	$28.79	$44.90	$68.26
11-3071	Transportation, Storage, and Distribution Managers	1,266	1,662	396	31%	$26.62	$39.68	$56.96
11-3121	Human Resources Managers	821	961	140	17%	$24.30	$42.23	$63.97
11-9141	Property, Real Estate, and Community Association Managers	2,735	2,912	177	6%	$12.69	$21.37	$34.92
13-1031	Claims Adjusters, Examiners, and Investigators	2,217	2,212	(5)	(0%)	$19.14	$29.54	$40.64
13-1032	Insurance Appraisers, Auto Damage	104	108	4	4%	$16.60	$23.11	$35.88
13-1051	Cost Estimators	2,005	2,597	592	30%	$17.20	$29.58	$45.88
13-1071	Human Resources Specialists	3,201	3,755	554	17%	$16.71	$27.12	$42.80
13-1111	Management Analysts	4,846	5,326	480	10%	$20.52	$31.86	$48.61
13-2011	Accountants and Auditors	8,352	9,211	859	10%	$19.11	$28.70	$45.11
13-2053	Insurance Underwriters	308	306	(2)	(1%)	$11.74	$28.87	$42.51
13-2082	Tax Preparers	982	1,077	95	10%	$11.49	$14.88	$30.98
41-3021	Insurance Sales Agents	3,892	4,313	421	11%	$12.62	$20.50	$35.42
41-9021	Real Estate Brokers	1,576	1,540	(36)	(2%)	$13.32	$20.66	$38.40
43-3051	Payroll and Timekeeping Clerks	1,903	2,228	325	17%	$13.12	$19.22	$27.42
43-9041	Insurance Claims and Policy Processing Clerks	1,686	1,866	180	11%	$9.42	$16.67	$23.39
	Total	65,260	74,343	9,083	14%	$19.77	$34.16	$61.78

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
11-1021	General and Operations Managers	20,659	22,565	1,906	9%	940
11-2021	Marketing Managers	1,025	1,130	105	10%	47
11-2022	Sales Managers	4,512	4,830	318	7%	176
11-3011	Administrative Services Managers	2,418	2,668	250	10%	98
11-3031	Financial Managers	4,207	4,389	182	4%	158
11-3051	Industrial Production Managers	1,448	1,442	(6)	(0%)	50
11-3071	Transportation, Storage, and Distribution Managers	1,662	1,949	287	17%	100
11-3121	Human Resources Managers	961	1,052	91	9%	48

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
11-9141	Property, Real Estate, and Community Association Managers	2,912	2,988	76	3%	93
13-1031	Claims Adjusters, Examiners, and Investigators	2,212	2,270	58	3%	78
13-1032	Insurance Appraisers, Auto Damage	108	113	5	5%	5
13-1051	Cost Estimators	2,597	2,741	144	6%	121
13-1071	Human Resources Specialists	3,755	4,021	266	7%	153
13-1111	Management Analysts	5,326	5,956	630	12%	205
13-2011	Accountants and Auditors	9,211	10,265	1,054	11%	475
13-2053	Insurance Underwriters	306	305	(1)	(0%)	9
13-2082	Tax Preparers	1,077	1,197	120	11%	53
41-3021	Insurance Sales Agents	4,313	4,597	284	7%	177
41-9021	Real Estate Brokers	1,540	1,421	(119)	(8%)	15
43-3051	Payroll and Timekeeping Clerks	2,228	2,301	73	3%	77
43-9041	Insurance Claims and Policy Processing Clerks	1,866	1,942	76	4%	66
	Total	74,343	80,142	5,799	8%	3,145

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
13-1071	Human Resources Specialists	1,658
11-1021	General and Operations Managers	1,252
11-2022	Sales Managers	1,249
11-3031	Financial Managers	1,107
41-3021	Insurance Sales Agents	946
13-1111	Management Analysts	756
11-3071	Transportation, Storage, and Distribution Managers	750
11-3121	Human Resources Managers	580
11-2021	Marketing Managers	477
11-3051	Industrial Production Managers	415
43-3051	Payroll and Timekeeping Clerks	397
11-9141	Property, Real Estate, and Community Association Managers	394
11-3011	Administrative Services Managers	292
13-2082	Tax Preparers	283
13-1051	Cost Estimators	276
13-1031	Claims Adjusters, Examiners, and Investigators	262
43-9041	Insurance Claims and Policy Processing Clerks	184
13-2053	Insurance Underwriters	86
13-1032	Insurance Appraisers, Auto Damage	13
41-9021	Real Estate Brokers	3
	Total	11,380

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
524210	Insurance Agencies and Brokerages	4,573	4,913	340	7%
903999	Local Government, Excluding Education and Hospitals	3,337	3,509	172	5%
551114	Corporate, Subsidiary, and Regional Managing Offices	2,141	2,204	63	3%
541219	Other Accounting Services	2,079	2,275	196	9%
901199	Federal Government, Civilian, Excluding Postal Service	1,819	1,826	7	0%
531210	Offices of Real Estate Agents and Brokers	1,708	1,516	(192)	(11%)
624120	Services for the Elderly and Persons with Disabilities	1,525	1,939	414	27%
541690	Other Scientific and Technical Consulting Services	1,573	1,860	287	18%
561320	Temporary Help Services	1,643	1,771	128	8%
493110	General Warehousing and Storage	1,179	1,698	519	44%
541213	Tax Preparation Services	1,315	1,522	207	16%
541611	Administrative Management and General Management Consulting Services	1,116	1,366	250	22%
561110	Office Administrative Services	1,056	1,220	164	16%
524126	Direct Property and Casualty Insurance Carriers	1,046	1,078	32	3%
531311	Residential Property Managers	909	1,116	207	23%
441110	New Car Dealers	894	988	94	11%
524127	Direct Title Insurance Carriers	905	953	48	5%
903611	Elementary and Secondary Schools (Local Government)	901	944	43	5%
541214	Payroll Services	807	1,092	285	35%
902999	State Government, Excluding Education and Hospitals	794	826	32	4%
541211	Offices of Certified Public Accountants	766	796	30	4%

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	42	51	93	31
Norco College	244	127	371	124
Riverside	171	147	318	106
RCCD Total	**457**	**325**	**782**	**261**
Barstow	10	149	159	53
Chaffey	95	445	540	180
Desert	69	209	278	93
Copper Mountain	17	61	78	26
Mt. San Jacinto	36	255	291	97
Palo Verde	148	35	183	61
San Bernardino	69	277	346	115
Victor Valley	22	269	291	97
Other Community Colleges Total	**466**	**1,700**	**2,166**	**722**
Grand Total	**923**	**2,025**	**2,948**	**983**

Source: DataMart

**There were 334 completions from other Institutions in the Region
between 2011 -2014. They included:**
Argosy University
CET Rancho Temecula/ San Bernardino
IIT Tech
Mayfield College
Milan Institute
Riverside County office of Education
Summit College
University of Redlands
Westwood College

Child Development and Education

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Early Childhood Education are 130500, 130520, and 130590.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Early Childhood Education are 131015 and 190709.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Early Childhood Education are: Education Administrators, Preschool and Childcare Center/Program (SOC: 11-9031), Directors, Religious Activities and Education (SOC: 21-2021), Preschool Teachers, Except Special Education (SOC: 25-2011), Special Education Teachers, Preschool (SOC: 25-2051), Teacher Assistants (SOC: 25-9041) Childcare Workers (SOC: 39-9011), Recreation Workers (SOC: 39-9032).

Background Information: Early Childhood Education Occupations

Education Administrators, Preschool and Childcare Center/Program (SOC: 11-9031)
Plan, direct, or coordinate the academic and nonacademic activities of preschool and childcare centers or programs. Requires a Bachelor's or Higher.

Directors, Religious Activities and Education (SOC: 21-2021)
Plan, direct, or coordinate programs designed to promote the religious education or activities of a denominational group. May provide counseling and guidance relative to marital, health, financial, and religious problems. Requires a Bachelor's or Higher.

Preschool Teachers, Except Special Education (SOC: 25-2011)
Instruct preschool-aged children in activities designed to promote social, physical, and intellectual growth needed for primary school in preschool, day care center, or other child development facility. May be required to hold State certification. Requires an Associate's Degree.

Special Education Teachers, Preschool (SOC: 25-2051)
Teach preschool school subjects to educationally and physically handicapped students. Includes teachers who specialize and work with audibly and visually handicapped students and those who teach basic academic and life processes skills to the mentally impaired. Requires a Bachelor's or Higher.

Teacher Assistants (SOC: 25-9041)
Perform duties that are instructional in nature or deliver direct services to students or parents. Serve in a position for which a teacher has ultimate responsibility for the design and implementation of educational programs and services. Requires Some College, No Degree.

Childcare Workers (SOC: 39-9011)
Attend to children at schools, businesses, private households, and childcare institutions. Perform a variety of tasks, such as dressing, feeding, bathing, and overseeing play. On-The-Job Training, No College Required.

Recreation Workers (SOC: 39-9032)
Conduct recreation activities with groups in public, private, or volunteer agencies or recreation facilities. Organize and promote activities, such as arts and crafts, sports, games, music, dramatics, social recreation, camping, and hobbies, taking into account the needs and interests of individual members. On-The-Job Training, No College Required.

Child Development and Education

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Early Childhood Education	130500	● ◇	● ◇	● ◇
ECE/Assistant Teacher	130500	✚	✚	✚
ECE/Twelve Core Units	130500	✚	✚	✚
Early Childhood Intervention Assistant	130520	● ◇	● ◇	● ◇
Infant and Toddler Specialization	130590	✚	✚	✚

✚ Locally Approved Certificate   ● State Approved Certificate   ◇ Associates Degree

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
11-9031	Education Administrators, Preschool and Childcare Center/Program	543	561	18	3%	$12.47	$17.56	$29.31
21-2021	Directors, Religious Activities and Education	1,005	1,033	28	3%	$13.07	$19.17	$34.11
25-2011	Preschool Teachers, Except Special Education	3,409	3,737	328	10%	$9.19	$13.49	$20.02
25-2051	Special Education Teachers, Preschool	98	182	84	86%	$14.30	$21.59	$40.79
25-9041	Teacher Assistants	13,276	14,468	1,192	9%	$9.86	$14.71	$18.25
39-9011	Childcare Workers	22,809	15,470	(7,339)	(32%)	$6.85	$8.19	$12.01
39-9032	Recreation Workers	3,204	4,355	1,151	36%	$9.01	$11.09	$16.69
	Total	44,345	39,806	(4,539)	(10%)	$8.66	$11.82	$16.45

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
11-9031	Education Administrators, Preschool and Childcare Center/Program	561	589	28	5%	24
21-2021	Directors, Religious Activities and Education	1,033	1,100	67	6%	43
25-2011	Preschool Teachers, Except Special Education	3,737	3,958	221	6%	160
25-2051	Special Education Teachers, Preschool	182	226	44	24%	13
25-9041	Teacher Assistants	14,468	15,578	1,110	8%	589
39-9011	Childcare Workers	15,470	14,825	(645)	(4%)	488
39-9032	Recreation Workers	4,355	4,894	539	12%	195
	Total	39,806	41,170	1,364	3%	1,511

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
39-9011	Childcare Workers	3,037
25-9041	Teacher Assistants	970
25-2011	Preschool Teachers, Except Special Education	736
39-9032	Recreation Workers	146
25-2051	Special Education Teachers, Preschool	78
11-9031	Education Administrators, Preschool and Childcare Center/Program	76
21-2021	Directors, Religious Activities and Education	26
39-9011	Childcare Workers	3,037
25-9041	Teacher Assistants	970
	Total	5,069

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
903611	Elementary and Secondary Schools (Local Government)	14,564	15,503	939	6%
624410	Child Day Care Services	11,594	11,579	(15)	(0%)
813110	Religious Organizations	2,495	2,654	159	6%
903999	Local Government, Excluding Education and Hospitals	1,947	2,060	113	6%
611110	Elementary and Secondary Schools	921	1,020	99	11%
713940	Fitness and Recreational Sports Centers	631	715	84	13%
814110	Private Households	1,157	285	(872)	(75%)

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	81	33	114	38
Norco College	232	35	267	89
Riverside	424	80	504	168
Total	737	148	885	295
Barstow	2	23	25	8
Chaffey	3	52	55	18
Desert	7	11	18	6
Copper Mountain	13	8	21	7
Crafton Hills	12	18	30	10
Mt. San Jacinto	81	33	114	38
Palo Verde	88	8	69	32
San Bernardino	129	86	215	72
Victor Valley	114	79	193	64
Other Community Colleges Total	449	318	740	255
Grand Total	1186	466	1625	550

Source: DataMart

Community Interpretation

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Community Interpretation is 214000.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Community Interpretation is 160103.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Community Interpretation is: Interpreters and Translators (SOC: 27-3091).

Background Information: Community Interpretation Occupation

Interpreters and Translators (SOC: 27-3091)
Interpret oral or sign language, or translate written text from one language into another. Requires a Bachelor's or Higher.

Community Interpretation

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Community Interpretation	214000	● ◇		

✚ Locally Approved Certificate   ● State Approved Certificate   ◇ Associates Degree

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
27-3091	Interpreters and Translators	646	797	151	23%	$12.15	$17.97	$33.22
	Total	646	797	151	23%	$12.15	$17.97	$33.22

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
27-3091	Interpreters and Translators	797	926	129	16%	40
	Total	797	926	129	16%	40

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
27-3091	Interpreters and Translators	208
	Total	208

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
903611	Elementary and Secondary Schools (Local Government)	190	201	11	6%
624120	Services for the Elderly and Persons with Disabilities	50	72	22	44%
903999	Local Government, Excluding Education and Hospitals	45	53	8	18%
622110	General Medical and Surgical Hospitals	41	52	11	27%
903612	Colleges, Universities, and Professional Schools (Local Government)	30	36	6	20%
541930	Translation and Interpretation Services	21	27	6	29%
621111	Offices of Physicians (except Mental Health Specialists)	16	20	4	25%
903622	Hospitals (Local Government)	11	12	1	9%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	46	21	67	22
Norco College	-	-	-	-
Riverside	4	2	6	2
RCCD Total	50	23	73	24

Source: DataMart

Computer Applications and Office Technology

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Computer Applications and Office Technology are 051400, 051410, and 051440.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Computer Applications and Office Technology are 520204, 220301, and 520401.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Computer Applications and Office Technology are: Administrative Services Managers (SOC: 11-3011), Medical Transcriptionists (SOC: 31-9094), File Clerks (SOC: 43-4071), Receptionists and Information Clerks (SOC: 43-4171), Executive Secretaries and Executive Administrative Assistants (SOC: 43-6011), Legal Secretaries (SOC: 43-6012), Medical Secretaries (SOC: 43-6013), Secretaries and Administrative Assistants, Except Legal, Medical, and Executive (SOC: 43-6014), Office Clerks, General (SOC: 43-9061).

Background Information: Computer Applications and Office Technology Occupations

Administrative Services Managers (SOC: 11-3011)
Plan, direct, or coordinate one or more administrative services of an organization, such as records and information management, mail distribution, facilities planning and maintenance, custodial operations, and other office support services. Requires a Bachelor's or Higher.

Medical Transcriptionists (SOC: 31-9094)
Transcribe medical reports recorded by physicians and other healthcare practitioners using various electronic devices, covering office visits, emergency room visits, diagnostic imaging studies, operations, chart reviews, and final summaries. Transcribe dictated reports and translate abbreviations into fully understandable form. Edit as necessary and return reports in either printed or electronic form for review and signature, or correction. Requires a Postsecondary Non-Degree Award.

First-Line Supervisors of Office and Administrative Support Workers (SOC: 43-1011)

Directly supervise and coordinate the activities of clerical and administrative support workers. On-The-Job Training, No College Required.

File Clerks (SOC: 43-4071)

File correspondence, cards, invoices, receipts, and other records in alphabetical or numerical order or according to the filing system used. Locate and remove material from file when requested. On-The-Job Training, No College Required.

Receptionists and Information Clerks (SOC: 43-4171)

Answer inquiries and provide information to the general public, customers, visitors, and other interested parties regarding activities conducted at establishment and location of departments, offices, and employees within the organization. On-The-Job Training, No College Required.

Executive Secretaries and Executive Administrative Assistants (SOC: 43-6011)

Provide high-level administrative support by conducting research, preparing statistical reports, handling information requests, and performing clerical functions such as preparing correspondence, receiving visitors, arranging conference calls, and scheduling meetings. May also train and supervise lower-level clerical staff. On-The-Job Training, No College Required.

Legal Secretaries (SOC: 43-6012)

Perform secretarial duties using legal terminology, procedures, and documents. Prepare legal papers and correspondence, such as summonses, complaints, motions, and subpoenas. May also assist with legal research. On-The-Job Training, No College Required.

Medical Secretaries (SOC: 43-6013)

Perform secretarial duties using specific knowledge of medical terminology and hospital, clinic, or laboratory procedures. Duties may include scheduling appointments, billing patients, and compiling and recording medical charts, reports, and correspondence. On-The-Job Training, No College Required.

Secretaries and Administrative Assistants, Except Legal, Medical, and Executive (SOC: 43-6014)

Perform routine clerical and administrative functions such as drafting correspondence, scheduling appointments, organizing and maintaining paper and electronic files, or providing information to callers. On-The-Job Training, No College Required.

Office Clerks, General (SOC: 43-9061)

Perform duties too varied and diverse to be classified in any specific office clerical occupation, requiring knowledge of office systems and procedures. Clerical duties may be assigned in accordance with the office procedures of individual establishments and may include a combination of answering telephones, bookkeeping, typing or word processing, stenography, office machine operation, and filing. On-The-Job Training, No College Required.

Computer Applications and Office Technology

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Administrative Office Professional	051400			✚
Executive Office Management	051400, 051440			● ◇
Executive Office Professional	051400			✚
Legal Administrative Professional	051410			✚
Office Assistant	051400			✚
Office Fast-Track	051400			✚
Virtual Assistant	051400			✚

✚ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇ *Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
11-3011	Administrative Services Managers	2,088	2,418	330	16%	$20.39	$36.52	$66.25
31-9094	Medical Transcriptionists	359	410	51	14%	$14.61	$18.87	$22.28
43-1011	First-Line Supervisors of Office and Administrative Support Workers	12,652	14,667	2,015	16%	$15.04	$23.66	$36.59
43-4071	File Clerks	1,927	2,095	168	9%	$9.61	$14.16	$21.73
43-4171	Receptionists and Information Clerks	7,562	9,114	1,552	21%	$9.21	$12.90	$19.60
43-6011	Executive Secretaries and Executive Administrative Assistants	5,111	5,345	234	5%	$16.71	$25.46	$35.50
43-6012	Legal Secretaries	795	811	16	2%	$11.03	$16.93	$23.14
43-6013	Medical Secretaries	4,906	5,959	1,053	21%	$10.41	$14.71	$22.07
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	18,592	20,909	2,317	12%	$11.57	$17.42	$24.32
43-9061	Office Clerks, General	27,791	32,238	4,447	16%	$9.08	$13.89	$21.84
	Total	81,784	93,967	12,183	15%	$11.44	$17.45	$26.41

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
11-3011	Administrative Services Managers	2,418	2,668	250	10%	98
31-9094	Medical Transcriptionists	410	469	59	14%	21
43-1011	First-Line Supervisors of Office and Administrative Support Workers	14,667	16,097	1,430	10%	525
43-4071	File Clerks	2,095	2,146	51	2%	53
43-4171	Receptionists and Information Clerks	9,114	10,165	1,051	12%	474
43-6011	Executive Secretaries and Executive Administrative Assistants	5,345	5,486	141	3%	87
43-6012	Legal Secretaries	811	851	40	5%	18
43-6013	Medical Secretaries	5,959	6,850	891	15%	247
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	20,909	22,480	1,571	8%	551
43-9061	Office Clerks, General	32,238	34,458	2,220	7%	1,173
	Total	93,967	101,670	7,703	8%	3,248

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	2,915
43-9061	Office Clerks, General	1,267
43-1011	First-Line Supervisors of Office and Administrative Support Workers	1,100
43-4171	Receptionists and Information Clerks	1,033
43-6013	Medical Secretaries	586
43-6011	Executive Secretaries and Executive Administrative Assistants	341
11-3011	Administrative Services Managers	292
43-4071	File Clerks	80
43-6012	Legal Secretaries	45
31-9094	Medical Transcriptionists	45
	Total	7,704

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
621111	Offices of Physicians (except Mental Health Specialists)	8,068	9,465	1,397	17%
903999	Local Government, Excluding Education and Hospitals	6,957	7,174	217	3%
903611	Elementary and Secondary Schools (Local Government)	5,103	5,295	192	4%
624120	Services for the Elderly and Persons with Disabilities	3,258	4,045	787	24%
622110	General Medical and Surgical Hospitals	3,059	3,503	444	15%
621210	Offices of Dentists	2,330	2,505	175	8%
813110	Religious Organizations	2,216	2,299	83	4%
611310	Colleges, Universities, and Professional Schools	2,029	2,535	506	25%
903612	Colleges, Universities, and Professional Schools (Local Government)	2,122	2,258	136	6%
902612	Colleges, Universities, and Professional Schools (State Government)	1,650	1,716	66	4%
561110	Office Administrative Services	1,298	1,474	176	14%
902999	State Government, Excluding Education and Hospitals	1,294	1,316	22	2%
541110	Offices of Lawyers	1,141	1,194	53	5%
551114	Corporate, Subsidiary, and Regional Managing Offices	1,036	1,042	6	1%
531210	Offices of Real Estate Agents and Brokers	1,010	900	(110)	(11%)

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	-	-	-	-
Riverside	49	-	49	16
Total RCCD	**49**	**-**	**49**	**16**
Barstow	2	-	2	1
Chaffey	38	24	62	21
Desert	2	0	2	1
Mt. San Jacinto	17	51	68	23
San Bernardino	28	38	66	22
Victor Valley	12	43	55	18
Other Community Colleges Total	**99**	**156**	**255**	**86**
Grand Total	**148**	**156**	**304**	**102**

Source: DataMart

Between 201 & 2014 there were 365 completions at the following institutions:
CET Coachella & and Rancho Temecula, Summit College, and Westech College.

Computer Information Systems

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Computer Information Systems are 070710, 070100, 070210, 061450, 079900, 070720, 061410, and 070900.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Computer Information Systems are 110201, 110101, 110601, 119999, 110802, 100304, and 111004 .

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Computer Information Systems are: Computer Systems Analysts (SOC: 15-1121), Computer Programmers (SOC: 15-1131), Software Developers, Applications (SOC: 15-1132), Software Developers, Systems Software (SOC: 15-1133), Web Developers (SOC: 15-1134), Database Administrators (SOC: 15-1141), Computer Occupations, All Other (SOC: 15-1199), Multimedia Artists and Animators (SOC: 27-1014), Data Entry Keyers (SOC: 43-9021), Desktop Publishers (SOC: 43-9031), Prepress Technicians and Workers (SOC: 51-5111).

Background Information: Computer Information Systems Occupations

Computer Systems Analysts (SOC: 15-1121)
Analyze science, engineering, business, and other data processing problems to implement and improve computer systems. Analyze user requirements, procedures, and problems to automate or improve existing systems and review computer system capabilities, workflow, and scheduling limitations. May analyze or recommend commercially available software. Requires a Bachelor's or Higher.

Information Security Analysts (SOC: 15-1122)
Plan, implement, upgrade, or monitor security measures for the protection of computer networks and information. May ensure appropriate security controls are in place that will safeguard digital files and vital electronic infrastructure. May respond to computer security breaches and viruses. Requires a Bachelor's or Higher.

Computer Programmers (SOC: 15-1131)

Create, modify, and test the code, forms, and script that allow computer applications to run. Work from specifications drawn up by software developers or other individuals. May assist software developers by analyzing user needs and designing software solutions. May develop and write computer programs to store, locate, and retrieve specific documents, data, and information. Requires a Bachelor's or Higher.

Software Developers, Applications (SOC: 15-1132)
Develop, create, and modify general computer applications software or specialized utility programs. Analyze user needs and develop software solutions. Design software or customize software for client use with the aim of optimizing operational efficiency. May analyze and design databases within an application area, working individually or coordinating database development as part of a team. May supervise computer programmers. Requires a Bachelor's or Higher.

Software Developers, Systems Software (SOC: 15-1133)
Research, design, develop, and test operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computing applications. Set operational specifications and formulate and analyze software requirements. May design embedded systems software. Apply principles and techniques of computer science, engineering, and mathematical analysis. Requires a Bachelor's or Higher.

Web Developers (SOC: 15-1134)
Design, create, and modify Web sites. Analyze user needs to implement Web site content, graphics, performance, and capacity. May integrate Web sites with other computer applications. May convert written, graphic, audio, and video components to compatible Web formats by using software designed to facilitate the creation of Web and multimedia content. Requires an Associate's degree.

Database Administrators (SOC: 15-1141)
Administer, test, and implement computer databases, applying knowledge of database management systems. Coordinate changes to computer databases. May plan, coordinate, and implement security measures to safeguard computer databases. Requires a Bachelor's or Higher.

Computer Occupations, All Other (SOC: 15-1199)
All computer occupations not listed separately. Requires a Bachelor's or Higher.

Multimedia Artists and Animators (SOC: 27-1014)
Create special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in products or creations, such as computer games, movies, music videos, and commercials. Requires a Bachelor's or Higher.

Data Entry Keyers (SOC: 43-9021)
Operate data entry device, such as keyboard or photo composing perforator. Duties may include verifying data and preparing materials for printing. On-The-Job Training, No College Required.

Desktop Publishers (SOC: 43-9031)
Format typescript and graphic elements using computer software to produce publication-ready material. Requires an Associate's degree.

Prepress Technicians and Workers (SOC: 51-5111)
Format and proof text and images submitted by designers and clients into finished pages that can be printed. Includes digital and photo typesetting. May produce printing plates. Requires a Postsecondary Non-Degree Award.

Computer Information Systems

Certificates and Degrees	TOP Codes	Moreno Valley	Norco	Riverside
C++ Networking	070710		✚	✚
CISCO Networking	070100			✚
Computer Applications	070210	● ◇		● ◇
Computer Programming	070710	● ◇	● ◇	● ◇
E-Commerce	070710			✚
Graphic Design	061450		● ◇	
Java Programming	070710		✚	✚
Mobile Application Development	079900		● ◇	
Relational Database Management Technology	070720			✚
Simulation and Gaming	061410	● ◇		
Systems Development	070100			✚
Web Master – Web Designer	070900	✚		✚
Web Master – Web Developer	070900	✚		✚

✚ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇ *Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
15-1121	Computer Systems Analysts	1,893	2,032	139	7%	$25.35	$35.01	$46.12
15-1122	Information Security Analysts	166	152	(14)	(8%)	$31.64	$45.42	$62.71
15-1131	Computer Programmers	973	925	(48)	(5%)	$19.75	$32.57	$48.20
15-1132	Software Developers, Applications	2,550	2,786	236	9%	$31.53	$44.61	$64.22
15-1133	Software Developers, Systems Software	667	652	(15)	(2%)	$29.21	$47.60	$63.60
15-1134	Web Developers	830	993	163	20%	$13.35	$23.09	$42.04
15-1141	Database Administrators	413	398	(15)	(4%)	$22.57	$41.29	$58.31
15-1151	Computer User Support Specialists	3,230	3,472	242	7%	$14.83	$24.71	$36.10
15-1152	Computer Network Support Specialists	960	966	6	1%	$21.79	$29.59	$44.69
27-1014	Multimedia Artists and Animators	261	280	19	7%	$9.18	$13.02	$18.13
43-9021	Data Entry Keyers	1,785	1,964	179	10%	$10.39	$13.68	$19.93
43-9031	Desktop Publishers	62	58	(4)	(6%)	$17.74	$24.02	$32.78
51-5111	Prepress Technicians and Workers	255	240	(15)	(6%)	$10.26	$14.93	$28.63
	Total	14,044	14,919	875	6%	$20.22	$30.24	$43.76

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
15-1121	Computer Systems Analysts	2,032	2,302	270	13%	83
15-1122	Information Security Analysts	152	179	27	18%	8
15-1131	Computer Programmers	925	952	27	3%	31
15-1132	Software Developers, Applications	2,786	3,056	270	10%	97
15-1133	Software Developers, Systems Software	652	750	98	15%	30
15-1134	Web Developers	993	1,142	149	15%	44
15-1141	Database Administrators	398	444	46	12%	19
15-1151	Computer User Support Specialists	3,472	3,843	371	11%	122
15-1152	Computer Network Support Specialists	966	1,061	95	10%	32
27-1014	Multimedia Artists and Animators	280	286	6	2%	7
43-9021	Data Entry Keyers	1,964	2,050	86	4%	45
43-9031	Desktop Publishers	58	54	(4)	(7%)	Insf. Data
51-5111	Prepress Technicians and Workers	240	201	(39)	(16%)	3
	Total	14,919	16,319	1,400	9%	523

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
15-1132	Software Developers, Applications	1,533
15-1151	Computer User Support Specialists	940
15-1121	Computer Systems Analysts	686
15-1141	Database Administrators	513
15-1134	Web Developers	501
43-9021	Data Entry Keyers	349
15-1131	Computer Programmers	253
15-1122	Information Security Analysts	241
15-1152	Computer Network Support Specialists	102
51-5111	Prepress Technicians and Workers	24
15-1133	Software Developers, Systems Software	19
27-1014	Multimedia Artists and Animators	17
43-9031	Desktop Publishers	1
	Total	5,179

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
541511	Custom Computer Programming Services	1,195	1,290	95	8%
903999	Local Government, Excluding Education and Hospitals	732	777	45	6%
903611	Elementary and Secondary Schools (Local Government)	629	666	37	6%
541512	Computer Systems Design Services	633	634	1	0%
551114	Corporate, Subsidiary, and Regional Managing Offices	521	541	20	4%
903612	Colleges, Universities, and Professional Schools (Local Government)	293	320	27	9%
611310	Colleges, Universities, and Professional Schools	272	352	80	29%
622110	General Medical and Surgical Hospitals	269	325	56	21%
902612	Colleges, Universities, and Professional Schools (State Government)	252	270	18	7%
518210	Data Processing, Hosting, and Related Services	219	275	56	26%
902999	State Government, Excluding Education and Hospitals	239	248	9	4%
561110	Office Administrative Services	213	252	39	18%
517110	Wired Telecommunications Carriers	203	224	21	10%
511210	Software Publishers	143	195	52	36%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate	Total Completions	Average Completions
Moreno Valley	32	27	59	20
Norco College	49	31	80	27
Riverside	184	40	224	75
RCCD Total	**265**	**98**	**363**	**122**
Chaffey	4	5	9	3
Copper Mountain	6	3	9	3
Crafton Hills	5	0	5	2
Mt. San Jacinto	46	35	81	27
Palo Verde	7	0	7	2
San Bernardino	21	0	21	7
Victor Valley	1	0	1	0
Other Community Colleges Total	**90**	**43**	**133**	**44**
Grand Total	**355**	**141**	**496**	**166**

Source: Data Mart

Construction Technology

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Construction Technology is 095720.
The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Construction Technology is 460403.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Construction Technology is: Construction and Building Inspectors (SOC: 47-4011).

Background Information: Construction Technology Occupation

Construction and Building Inspectors (SOC: 47-4011)
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. On-The-Job Training, Some College Required.

Construction Technology

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Construction Technology	095720		● ◇	

+ Locally Approved Certificate   *● State Approved Certificate*   *◇Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
47-4011	Construction and Building Inspectors	1,006	1,043	37	4%	$17.47	$33.11	$53.77
	Total	1,006	1,043	37	4%	$17.47	$33.11	$53.77

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
47-4011	Construction and Building Inspectors	1,043	1,086	43	4%	40
	Total	1,043	1,086	43	4%	40

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
47-4011	Construction and Building Inspectors	99
	Total	99

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
903999	Local Government, Excluding Education and Hospitals	558	589	31	6%
541330	Engineering Services	106	101	(5)	(5%)
541310	Architectural Services	52	57	5	10%
541320	Landscape Architectural Services	41	44	3	7%
902999	State Government, Excluding Education and Hospitals	30	31	1	3%
541350	Building Inspection Services	23	24	1	4%
238220	Plumbing, Heating, and Air-Conditioning Contractors	17	19	2	12%
541370	Surveying and Mapping (except Geophysical) Services	19	20	1	5%
541340	Drafting Services	18	18	0	0%
901199	Federal Government, Civilian, Excluding Postal Service	17	17	0	0%
236220	Commercial and Institutional Building Construction	12	13	1	8%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	46	11	57	19
Riverside	-	-	-	-
RCCD Total	**46**	**11**	**57**	**19**
Desert	10	0	10	3
San Bernardino	10	6	16	5
Victor Valley	8	0	8	3
Other Community Colleges Total	**28**	**6**	**34**	**11**
Grand Total	**74**	**17**	**91**	**30**

Source: Data Mart

Cosmetology

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Cosmetology is 300700.
The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Cosmetology is 120401.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Cosmetology are: First-Line Supervisors of Personal Service Workers (SOC: 39-1021), Barbers (SOC: 39-5011), Hairdressers, Hairstylists, and Cosmetologists (SOC: 39-5012), Makeup Artists, Theatrical and Performance (SOC: 39-5091), Manicurists and Pedicurists (SOC: 39-5092), Skincare Specialists (SOC: 39-5094).

Background Information: Cosmetology Occupations

First-Line Supervisors of Personal Service Workers (SOC: 39-1021)
Directly supervise and coordinate activities of personal service workers, such as flight attendants, hairdressers, or caddies. On-The-Job Training, No College Required.

Barbers (SOC: 39-5011)
Provide barbering services, such as cutting, trimming, shampooing, and styling hair, trimming beards, or giving shaves. Requires a Postsecondary Non-Degree Award.

Hairdressers, Hairstylists, and Cosmetologists (SOC: 39-5012)
Provide beauty services, such as shampooing, cutting, coloring, and styling hair, and massaging and treating scalp. May apply makeup, dress wigs, perform hair removal, and provide nail and skin care services. Requires a Postsecondary Non-Degree Award.

Makeup Artists, Theatrical and Performance (SOC: 39-5091)
Apply makeup to performers to reflect period, setting, and situation of their role. Requires a Postsecondary Non-Degree Award.

Manicurists and Pedicurists (SOC: 39-5092)
Clean and shape customers' fingernails and toenails. May polish or decorate nails. Requires a Postsecondary Non-Degree Award.

Skincare Specialists (SOC: 39-5094)

Provide skincare treatments to face and body to enhance an individual's appearance. Includes electrologists and laser hair removal specialists. Requires a Postsecondary Non-Degree Award.

Cosmetology

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Cosmetology	300700			● ◇
Cosmetology Business Admin - Entrepreneurial Concentration	300700			● ◇
Cosmetology Business Admin – Management and Supervision Concentration	300700			● ◇
Cosmetology, Instructor Training	300700			+

✦ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
39-1021	First-Line Supervisors of Personal Service Workers	1,438	1,944	506	35%	$10.70	$16.13	$25.96
39-5011	Barbers	845	835	(10)	(1%)	$8.28	$9.54	$11.17
39-5012	Hairdressers, Hairstylists, and Cosmetologists	7,487	8,882	1,395	19%	$8.63	$9.46	$11.75
39-5091	Makeup Artists, Theatrical and Performance	26	29	3	12%	$13.29	$21.72	$32.77
39-5092	Manicurists and Pedicurists	1,920	2,375	455	24%	$8.17	$9.05	$10.54
39-5094	Skincare Specialists	624	770	146	23%	$9.51	$13.54	$16.51
	Total	12,340	14,835	2,495	20%	$9.76	$13.24	$18.12

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
39-1021	First-Line Supervisors of Personal Service Workers	1,944	2,240	296	15%	104
39-5011	Barbers	835	904	69	8%	30
39-5012	Hairdressers, Hairstylists, and Cosmetologists	8,882	10,075	1,193	13%	487
39-5091	Makeup Artists, Theatrical and Performance	29	30	1	3%	Insf. Data
39-5092	Manicurists and Pedicurists	2,375	2,615	240	10%	68
39-5094	Skincare Specialists	770	876	106	14%	28
	Total	14,835	16,740	1,905	11%	717

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
39-5012	Hairdressers, Hairstylists, and Cosmetologists	190
39-1021	First-Line Supervisors of Personal Service Workers	115
39-5094	Skincare Specialists	80
39-5092	Manicurists and Pedicurists	46
39-5091	Makeup Artists, Theatrical and Performance	13
39-5011	Barbers	11
	Total	455

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
812112	Beauty Salons	9,022	9,906	884	10%
812113	Nail Salons	1,409	1,699	290	21%
812111	Barber Shops	762	807	45	6%
812191	Diet and Weight Reducing Centers	159	153	(6)	(4%)

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	-	-	-	-
Riverside	366	39	405	135
RCCD Total	**366**	**39**	**405**	**135**
Barstow	3	10	13	4
Other Community Colleges Total	**3**	**10**	**13**	**4**
Grand Total	369	49	418	139

Source: Data Mart

There were 1,591 completions from other institutions in the region between 2011-2014. They included:
International School of Beauty
Coachella Valley Beauty College
Advance Beauty Techs Academy
Elite Cosmetology
Salon Success Academy
Marinello Schools of Beauty

Culinary Arts

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Culinary Arts is 130630.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Culinary Arts is 120500.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Culinary Arts are: Food Service Managers (SOC: 11-9051), Dietitians and Nutritionists (SOC: 29-1031), Dietetic Technicians (SOC: 29-2051), Chefs and Head Cooks (SOC: 35-1011), First-Line Supervisors of Food Preparation and Serving Workers (SOC: 35-1012), Cooks, Institution and Cafeteria (SOC: 35-2012), Cooks, Private Household (SOC: 35-2013), Cooks, Restaurant (SOC: 35-2014), Food Preparation Workers (SOC: 35-2021).

Background Information: Culinary Arts Occupations

Food Service Managers (SOC: 11-9051)
Plan, direct, or coordinate activities of an organization or department that serves food and beverages. On-The-Job Training, No College Required.

Dietitians and Nutritionists (SOC: 29-1031)
Plan and conduct food service or nutritional programs to assist in the promotion of health and control of disease. May supervise activities of a department providing quantity food services, counsel individuals, or conduct nutritional research. Requires a Bachelor's or Higher.

Dietetic Technicians (SOC: 29-2051)
Assist in the provision of food service and nutritional programs, under the supervision of a dietitian. May plan and produce meals based on established guidelines, teach principles of food and nutrition, or counsel individuals. Requires an Associate's Degree.

Chefs and Head Cooks (SOC: 35-1011)
Direct and may participate in the preparation, seasoning, and cooking of salads, soups, fish, meats, vegetables, desserts, or other foods. May plan and price menu items, order supplies, and keep records and accounts. On-The-Job Training, No College Required.

First-Line Supervisors of Food Preparation and Serving Workers (SOC: 35-1012)
Directly supervise and coordinate activities of workers engaged in preparing and serving food. On-The-Job Training, No College Required.

Cooks, Institution and Cafeteria (SOC: 35-2012)
Prepare and cook large quantities of food for institutions, such as schools, hospitals, or cafeterias. On-The-Job Training, No College Required.

Cooks, Private Household (SOC: 35-2013)
Prepare meals in private homes. Includes personal chefs. Requires a Postsecondary Non-Degree Award.

Cooks, Restaurant (SOC: 35-2014)
Prepare, season, and cook dishes such as soups, meats, vegetables, or desserts in restaurants. May order supplies, keep records and accounts, price items on menu, or plan menu. On-The-Job Training, No College Required.

Food Preparation Workers (SOC: 35-2021)
Perform a variety of food preparation duties other than cooking, such as preparing cold foods and shellfish, slicing meat, and brewing coffee or tea. On-The-Job Training, No College Required.

Culinary Arts

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Culinary Arts	130630			● ◇

✚ Locally Approved Certificate   ● State Approved Certificate   ◇Associates Degree

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
11-9051	Food Service Managers	4,174	4,728	554	13%	$11.25	$18.60	$27.92
29-1031	Dietitians and Nutritionists	532	648	116	22%	$24.82	$31.72	$38.94
29-2051	Dietetic Technicians	348	415	67	19%	$9.30	$13.57	$22.30
35-1011	Chefs and Head Cooks	1,560	1,894	334	21%	$8.96	$13.11	$30.88
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	7,856	9,648	1,792	23%	$9.47	$14.12	$21.89
35-2012	Cooks, Institution and Cafeteria	2,224	2,642	418	19%	$9.47	$13.33	$20.08
35-2013	Cooks, Private Household	56	55	(1)	(2%)	$13.29	$15.74	$38.58
35-2014	Cooks, Restaurant	10,017	12,474	2,457	25%	$8.94	$10.88	$14.55
35-2021	Food Preparation Workers	8,316	9,915	1,599	19%	$8.98	$9.82	$14.15
	Total	35,085	42,420	7,335	21%	$9.62	$12.84	$19.18

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
11-9051	Food Service Managers	4,728	5,179	451	10%	191
29-1031	Dietitians and Nutritionists	648	740	92	14%	24
29-2051	Dietetic Technicians	415	465	50	12%	14
35-1011	Chefs and Head Cooks	1,894	2,117	223	12%	75
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	9,648	11,217	1,569	16%	633
35-2012	Cooks, Institution and Cafeteria	2,642	2,963	321	12%	140
35-2013	Cooks, Private Household	55	54	(1)	(2%)	Insf. Data
35-2014	Cooks, Restaurant	12,474	14,343	1,869	15%	736
35-2021	Food Preparation Workers	9,915	11,127	1,212	12%	541
	Total	42,420	48,206	5,786	14%	2,357

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	2,104
35-2014	Cooks, Restaurant	1,168
11-9051	Food Service Managers	845
35-2021	Food Preparation Workers	359
35-1011	Chefs and Head Cooks	259
29-1031	Dietitians and Nutritionists	213
29-2051	Dietetic Technicians	116
35-2012	Cooks, Institution and Cafeteria	1
35-2013	Cooks, Private Household	1
	Total	5,066

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
722511	Full-Service Restaurants	14,410	16,576	2,166	15%
722513	Limited-Service Restaurants	9,725	11,555	1,830	19%
903611	Elementary and Secondary Schools (Local Government)	2,584	2,615	31	1%
445110	Supermarkets and Other Grocery (except Convenience) Stores	1,920	2,126	206	11%
722515	Snack and Nonalcoholic Beverage Bars	1,316	1,636	320	24%
721110	Hotels (except Casino Hotels) and Motels	1,322	1,376	54	4%
722310	Food Service Contractors	1,204	1,296	92	8%
623110	Nursing Care Facilities (Skilled Nursing Facilities)	928	1,021	93	10%
624120	Services for the Elderly and Persons with Disabilities	807	1,040	233	29%
722320	Caterers	816	858	42	5%
903999	Local Government, Excluding Education and Hospitals	792	814	22	3%
622110	General Medical and Surgical Hospitals	681	776	95	14%
713910	Golf Courses and Country Clubs	532	564	32	6%
623312	Assisted Living Facilities for the Elderly	400	503	103	26%
722514	Cafeterias, Grill Buffets, and Buffets	344	412	68	20%
722330	Mobile Food Services	318	336	18	6%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	-	-	-	-
Riverside	67	21	88	29
RCCD Total	**67**	**21**	**88**	**29**
Chaffey	23	0	23	8
Desert	24	14	38	13
San Bernardino	34	0	34	11
Other Community Colleges Total	**81**	**14**	**95**	**32**
Grand Total	148	35	183	61

Source: Data Mart

Dental Assistant

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Dental Assistant is 124010.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Dental Assistant is 510601.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Dental Assistant is: Dental Assistants (SOC: 31-9091).

Background Information: Dental Assistant Occupation

Dental Assistants (SOC: 31-9091)
Assist dentist, set up equipment, prepare patient for treatment, and keep records. Requires a Postsecondary Non-Degree Award.

Dental Assistant

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Dental Assistant	124010	● ◇		

✦ Locally Approved Certificate   ● State Approved Certificate   ◇Associates Degree

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry wage	Median Wage	Experienced Wage
31-9091	Dental Assistants	4,431	5,095	664	15%	$10.36	$15.46	$22.47
	Total	4,431	5,095	664	15%	$10.36	$15.46	$22.47

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
31-9091	Dental Assistants	5,095	5,448	353	7%	212
	Total	5,095	5,448	353	7%	212

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
31-9091	Dental Assistants	493
	Total	493

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
621210	Offices of Dentists	4,631	4,933	302	7%
621111	Offices of Physicians (except Mental Health Specialists)	134	154	20	15%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	46	10	56	19
Norco College	-	-	-	-
Riverside	-	-	-	-
RCCD Total	46	10	56	19
Chaffey	61	17	78	26
Other Community Colleges Total	61	17	78	26
Grand Total	107	27	134	45

Source: Data Mart

There were 1,826 completions from other institutions in the region between 2011-2014. They included:
Everest College
Milan Institute- Palm Desert
Riverside County Office of Education
Summit College
Kaplan College
Four-D College

Dental Hygiene

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Dental Hygiene is 124020.
The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Dental Hygiene is 510602.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC code and titles associated with Dental Hygiene is: Dental Hygienists (SOC: 29-2021).

Labor Insights/ Burning Glass is a collection of online job postings from online sources (e.g. job boards, employer sites, newspapers, public agencies, etc.) and uses proprietary software to mine and code detailed data from each job listing.

Background Information: Dental Hygiene Occupation

Dental Hygienists (SOC: 29-2021)
Clean teeth and examine oral areas, head, and neck for signs of oral disease. May educate patients on oral hygiene, take and develop x rays, or apply fluoride or sealants. Requires an Associate's Degree.

Dental Hygiene

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Dental Hygiene	124020	◇		

✚ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
29-2021	Dental Hygienists	1,375	1,525	150	11%	$33.32	$44.47	$55.24
	Total	1,375	1,525	150	11%	$33.32	$44.47	$55.24

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
29-2021	Dental Hygienists	1,525	1,676	151	10%	62
	Total	1,525	1,676	151	10%	62

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
29-2021	Dental Hygienists	37
	Total	37

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
621210	Offices of Dentists	1,443	1,581	138	10%
621111	Offices of Physicians (except Mental Health Specialists)	19	23	4	21%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	0	28	28	9
Norco College	-	-	-	-
Riverside	-	-	-	-
RCCD Total	0	28	28	9
Other Community Colleges Total	-	-	-	-
Grand Total	0	28	28	9

Source: Data Mart

There were 180 completions from other institutions in the region between 2011 -2014. They included:
San Joaquin Valley College
Loma Linda University
Concorde Career College-San Bernardino

Drafting Technology

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Drafting Technology is 095300.
The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Drafting Technology is 151301.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Drafting Technology are: Architectural and Civil Drafters (SOC: 17-3011), Electrical and Electronics Drafters (SOC: 17-3012), Mechanical Drafters (SOC: 17-3013).

Background Information: Drafting Technology Occupations

Architectural and Civil Drafters (SOC: 17-3011)
Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Use knowledge of building materials, engineering practices, and mathematics to complete drawings. Requires an Associate's Degree.

Electrical and Electronics Drafters (SOC: 17-3012)
Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for the manufacture, installation, or repair of electrical equipment. Requires an Associate's Degree.

Mechanical Drafters (SOC: 17-3013)
Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information. Requires an Associate's Degree.

Drafting Technology

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Drafting Technology	095300		● ◇	

✚ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
17-3011	Architectural and Civil Drafters	664	749	85	13%	$14.24	$26.08	$38.97
17-3012	Electrical and Electronics Drafters	241	278	37	15%	$17.87	$27.24	$42.57
17-3013	Mechanical Drafters	425	482	57	13%	$16.19	$24.26	$37.67
	Total	1,330	1,509	179	13%	$15.52	$25.72	$39.22

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
17-3011	Architectural and Civil Drafters	749	733	(16)	(2%)	10
17-3012	Electrical and Electronics Drafters	278	281	3	1%	5
17-3013	Mechanical Drafters	482	465	(17)	(4%)	6
	Total	1,509	1,479	(30)	(2%)	21

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
17-3013	Mechanical Drafters	128
17-3012	Electrical and Electronics Drafters	40
17-3011	Architectural and Civil Drafters	23
	Total	191

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
541330	Engineering Services	293	267	(26)	(9%)
541310	Architectural Services	140	145	5	4%
541320	Landscape Architectural Services	89	89	0	0%
238210	Electrical Contractors and Other Wiring Installation Contractors	48	52	4	8%
238220	Plumbing, Heating, and Air-Conditioning Contractors	47	52	5	11%
541370	Surveying and Mapping (except Geophysical) Services	54	54	0	0%
541350	Building Inspection Services	53	52	(1)	(2%)
561320	Temporary Help Services	49	49	0	0%
903999	Local Government, Excluding Education and Hospitals	33	34	1	3%
332322	Sheet Metal Work Manufacturing	30	35	5	17%
541340	Drafting Services	28	28	0	0%
332312	Fabricated Structural Metal Manufacturing	21	22	1	5%
332321	Metal Window and Door Manufacturing	19	16	(3)	(16%)
238130	Framing Contractors	18	14	(4)	(22%)
236220	Commercial and Institutional Building Construction	18	18	0	0%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	114	13	127	42
Riverside	1	1	2	1
RCCD Total	**115**	**14**	**129**	**43**
Desert	1	1	2	1
Mt. San Jacinto	2	8	10	3
Victor Valley	0	43	43	14
Other Community Colleges Total	**3**	**52**	**55**	**18**
Grand Total	**118**	**66**	**184**	**61**

Source: Data Mart

**There were 191completions from other institutions in the region
between 2011 -2014. They included:**
ITT Tech-San Bernardino
Westech College
ITT Tech-Corona

Education Paraprofessional

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Education Paraprofessional is 080200.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Education Paraprofessional is 131501.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Education Paraprofessional is: Teacher Assistants (SOC: 25-9041).

Background Information: Education Paraprofessional Occupations

Teacher Assistants (SOC: 25-9041)
Perform duties that are instructional in nature or deliver direct services to students or parents. Serve in a position for which a teacher has ultimate responsibility for the design and implementation of educational programs and services. Requires Some College, No Degree.

Education Paraprofessional

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Education Paraprofessional	080200	● ◇		● ◇

✦ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
25-9041	Teacher Assistants	13,276	14,468	1,192	9%	$9.86	$14.71	$18.25
	Total	13,276	14,468	1,192	9%	$9.86	$14.71	$18.25

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
25-9041	Teacher Assistants	14,468	15,578	1,110	8%	589
	Total	14,468	15,578	1,110	8%	589

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
25-9041	Teacher Assistants	970
	Total	970

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
903611	Elementary and Secondary Schools (Local Government)	11,611	12,377	766	7%
611110	Elementary and Secondary Schools	545	603	58	11%
624120	Services for the Elderly and Persons with Disabilities	470	606	136	29%
624410	Child Day Care Services	438	463	25	6%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	3	4	7	2
Norco College	-	-	-	-
Riverside	3	2	5	2
RCCD Total	**6**	**6**	**12**	**4**
Chaffey	22	31	53	18
Other Community Colleges Total	**22**	**31**	**53**	**18**
Grand Total	**28**	**37**	**65**	**20**

Source: Data Mart

There were 49 completions from other institutions in the region between 2011-2014. They included:
Riverside County Office of Education

Electrician

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Electronics Technology are 093400 and 099900.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Electronics Technology are 470101, 150303, and 159999.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Electronics Technology are: Electronics Engineers, Except Computer (SOC: 17-2072), Electrical and Electronic Engineering Technicians (SOC: 17-3023), Engineering Technicians, Except Drafters, All Other (SOC: 17-3029), Electric Motor, Power Tool, and Related Repairers (SOC: 49-2092), Electrical and Electronics Installers and Repairers, Transportation Equipment (SOC: 49-2093), Electrical and Electronics Repairers, Commercial and Industrial Equipment (SOC: 49-2094), Electrical and Electronic Equipment Assemblers (SOC: 51-2022).

Background Information: Electronics Technology Occupations

Electronics Engineers, Except Computer (SOC: 17-2072)
Research, design, develop, or test electronic components and systems for commercial, industrial, military, or scientific use employing knowledge of electronic theory and materials properties. Design electronic circuits and components for use in fields such as telecommunications, aerospace guidance and propulsion control, acoustics, or instruments and controls. Requires a Bachelor's or Higher.

Electrical and Electronic Engineering Technicians (SOC: 17-3023)
Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, calibrate, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use by engineering staff in making engineering design decisions. Requires an Associate's Degree.

Engineering Technicians, Except Drafters, All Other (SOC: 17-3029)
All engineering technicians, except drafters, not listed separately. Requires an Associate's Degree.

Electric Motor, Power Tool, and Related Repairers (SOC: 49-2092)
Repair, maintain, or install electric motors, wiring, or switches. Requires a Postsecondary Non-Degree Award.

Electrical and Electronics Installers and Repairers, Transportation Equipment (SOC: 49-2093)
Install, adjust, or maintain mobile electronics communication equipment, including sound, sonar, security, navigation, and surveillance systems on trains, watercraft, or other mobile equipment. Requires a Postsecondary Non-Degree Award.

Electrical and Electronics Repairers, Commercial and Industrial Equipment (SOC: 49-2094)
Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters, and antennas. Requires a Postsecondary Non-Degree Award.

Electrical and Electronic Equipment Assemblers (SOC: 51-2022)
Assemble or modify electrical or electronic equipment, such as computers, test equipment telemetering systems, electric motors, and batteries. On-The-Job Training, No College Required.

Electrician

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Digital Electronics	093400		● ◇	
Green Technician	099900		✚	

✚ *Locally Approved Certificate*　● *State Approved Certificate*　◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
17-2072	Electronics Engineers, Except Computer	1,176	1,092	(84)	(7%)	$30.97	$47.81	$58.47
17-3023	Electrical and Electronics Engineering Technicians	1,007	991	(16)	(2%)	$16.87	$30.31	$42.50
17-3029	Engineering Technicians, Except Drafters, All Other	661	686	25	4%	$23.11	$32.14	$41.73
49-2092	Electric Motor, Power Tool, and Related Repairers	102	95	(7)	(7%)	$14.26	$23.11	$31.32
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	141	155	14	10%	$19.56	$24.20	$34.73
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	530	580	50	9%	$17.26	$28.63	$38.49
51-2022	Electrical and Electronic Equipment Assemblers	1,215	1,335	120	10%	$9.20	$15.41	$22.74
	Total	4,833	4,934	101	2%	$18.99	$30.07	$39.87

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
17-2072	Electronics Engineers, Except Computer	1,092	1,119	27	2%	31
17-3023	Electrical and Electronics Engineering Technicians	991	995	4	0%	26
17-3029	Engineering Technicians, Except Drafters, All Other	686	702	16	2%	20
49-2092	Electric Motor, Power Tool, and Related Repairers	95	105	10	11%	6
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	155	162	7	5%	5
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	580	616	36	6%	18
51-2022	Electrical and Electronic Equipment Assemblers	1,335	1,363	28	2%	25
	Total	4,934	5,062	128	3%	131

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
17-3029	Engineering Technicians, Except Drafters, All Other	239
17-3023	Electrical And Electronics Engineering Technicians	231
17-2072	Electronics Engineers, Except Computer	82
51-2022	Electrical and Electronic Equipment Assemblers	78
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	37
49-2092	Electric Motor, Power Tool, and Related Repairers	24
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	2
	Total	693

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
901199	Federal Government, Civilian, Excluding Postal Service	461	458	(3)	(1%)
541330	Engineering Services	226	213	(13)	(6%)
903999	Local Government, Excluding Education and Hospitals	193	203	10	5%
517110	Wired Telecommunications Carriers	140	155	15	11%
423610	Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers	102	115	13	13%
334417	Electronic Connector Manufacturing	114	91	(23)	(20%)
334413	Semiconductor and Related Device Manufacturing	106	82	(24)	(23%)
238210	Electrical Contractors and Other Wiring Installation Contractors	95	103	8	8%

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
334513	Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables	92	102	10	11%
517210	Wireless Telecommunications Carriers (except Satellite)	98	117	19	19%
482110	Rail transportation	97	96	(1)	(1%)
335314	Relay and Industrial Control Manufacturing	76	94	18	24%
334515	Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals	72	85	13	18%
334416	Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing	78	81	3	4%
811310	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	71	77	6	8%
334220	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing	65	86	21	32%
221112	Fossil Fuel Electric Power Generation	59	55	(4)	(7%)
335931	Current-Carrying Wiring Device Manufacturing	51	38	(13)	(25%)

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	14	6	20	7
Riverside	0	2	2	1
RCCD Total	**14**	**8**	**22**	**8**
Barstow	1	4	5	2
San Bernardino	56	21	77	26
Victor Valley	4	27	31	10
Other Community Colleges Total	**61**	**52**	**113**	**38**
Grand Total	**75**	**60**	**135**	**46**

Source: Data Mart

Emergency Medical Services

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Emergency Medical Services are 125000 and 125100.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Emergency Medical Services is 510904.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Emergency Medical Services is: Emergency Medical Technicians and Paramedics (SOC: 29-2041).

Background Information: Emergency Medical Services Occupation

Emergency Medical Technicians and Paramedics (SOC: 29-2041)
Assess injuries, administer emergency medical care, and extricate trapped individuals. Transport injured or sick persons to medical facilities. Requires a Postsecondary Non-Degree Award.

Emergency Medical Services

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Emergency Medical Technician	125000	✚		
Paramedic	125100	● ◇		

✚ *Locally Approved Certificate*　●　*State Approved Certificate*　◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
29-2041	Emergency Medical Technicians and Paramedics	2,099	2,081	(18)	(1%)	$9.49	$12.15	$25.57
	Total	2,099	2,081	(18)	(1%)	$9.49	$12.15	$25.57

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
29-2041	Emergency Medical Technicians and Paramedics	2,081	2,372	291	14%	97
	Total	2,081	2,372	291	14%	97

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
29-2041	Emergency Medical Technicians and Paramedics	350
	Total	350

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
621910	Ambulance Services	1,396	1,599	203	15%
903999	Local Government, Excluding Education and Hospitals	448	487	39	9%
622110	General Medical and Surgical Hospitals	114	145	31	27%
903622	Hospitals (Local Government)	45	48	3	7%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	212	14	226	75
Norco College	-	-	-	-
Riverside	-	-	-	-
RCCD Total	**212**	**14**	**226**	**75**
Crafton	678	27	705	235
Victor Valley	26	19	45	15
Other Community Colleges Total	**704**	**46**	**750**	**250**
Grand Total	**916**	**60**	**976**	**325**

Source: Data Mart

**There were 25 completions from other institutions in the region
between 2011 -2014. They included:**
Riverside County Office of Education

Engineering

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Engineering are 095300 and 090100.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Engineering are 151301 and 140102.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Engineering are: Architectural and Civil Drafters (SOC: 17-3011), Electrical and Electronics Drafters (SOC: 17-3012), Mechanical Drafters (SOC: 17-3013).

Background Information: Engineering Occupations

Architectural and Civil Drafters (SOC: 17-3011)
Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Use knowledge of building materials, engineering practices, and mathematics to complete drawings. Requires an Associate's Degree.

Electrical and Electronics Drafters (SOC: 17-3012)
Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for the manufacture, installation, or repair of electrical equipment. Requires an Associate's Degree.

Mechanical Drafters (SOC: 17-3013)
Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information. Requires an Associate's Degree.

Engineering

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Engineering Graphics	095300		✚	
Pre-Engineering	090100		◇	
With CSUGE pattern	090100		◇	
With IGETC pattern	090100		◇	

✚ *Locally Approved Certificate* ● *State Approved Certificate* ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
17-3011	Architectural and Civil Drafters	664	749	85	13%	$14.24	$26.08	$38.97
17-3012	Electrical and Electronics Drafters	241	278	37	15%	$17.87	$27.24	$42.57
17-3013	Mechanical Drafters	425	482	57	13%	$16.19	$24.26	$37.67
	Total	1,330	1,509	179	13%	$15.52	$25.72	$39.22

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
17-3011	Architectural and Civil Drafters	749	733	(16)	(2%)	10
17-3012	Electrical and Electronics Drafters	278	281	3	1%	5
17-3013	Mechanical Drafters	482	465	(17)	(4%)	6
	Total	1,509	1,479	(30)	(2%)	21

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
17-3013	Mechanical Drafters	128
17-3012	Electrical and Electronics Drafters	40
17-3011	Architectural and Civil Drafters	23
	Total	191

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
541330	Engineering Services	293	267	(26)	(9%)
541310	Architectural Services	140	145	5	4%
541320	Landscape Architectural Services	89	89	0	0%
541350	Building Inspection Services	53	52	(1)	(2%)
541340	Drafting Services	28	28	0	0%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	128	39	167	56
Riverside	1	1	2	0
RCCD Total	**129**	**40**	**169**	**56**
Chaffey	2	3	5	2
Desert	1	1	2	0
Mt. San Jacinto	2	8	10	3
Victor Valley	0	43	43	14
Other Community Colleges Total	**5**	**55**	**60**	**19**
Grand Total	**134**	**95**	**229**	**75**

Source: Data Mart

There were 191 completions from other institutions in the region between 2011-2014. They included:
ITT Tech-San Bernardino
Westech College
ITT Tech- Corona

Film, Television, and Video

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Film, Television, and Video is 060420.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Film, Television, and Video is 090701.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Film, Television, and Video are: Producers and Directors (SOC: 27-2012), Radio and Television Announcers (SOC: 27-3011), Broadcast News Analysts (SOC: 27-3021), Audio and Video Equipment Technicians (SOC: 27-4011), Broadcast Technicians (SOC: 27-4012), Sound Engineering Technicians (SOC: 27-4014), Camera Operators, Television, Video, and Motion Picture (SOC: 27-4031), Film and Video Editors (SOC: 27-4032).

Background Information: Film, Television, and Video Occupations

Producers and Directors (SOC: 27-2012)
Produce or direct stage, television, radio, video, or motion picture productions for entertainment, information, or instruction. Responsible for creative decisions, such as interpretation of script, choice of actors or guests, set design, sound, special effects, and choreography. Requires a Bachelor's or Higher.

Radio and Television Announcers (SOC: 27-3011)
Speak or read from scripted materials, such as news reports or commercial messages, on radio or television. May announce artist or title of performance, identify station, or interview guests. Requires a Bachelor's or Higher.

Broadcast News Analysts (SOC: 27-3021)
Analyze, interpret, and broadcast news received from various sources. Requires a Bachelor's or Higher.

Audio and Video Equipment Technicians (SOC: 27-4011)

Set up, or set up and operate audio and video equipment including microphones, sound speakers, video screens, projectors, video monitors, recording equipment, connecting wires and cables, sound and mixing boards, and related electronic equipment for concerts, sports events, meetings and conventions, presentations, and news conferences. May also set up and operate associated spotlights and other custom lighting systems. Requires a Postsecondary Non-Degree Award.

Broadcast Technicians (SOC: 27-4012)

Set up, operate, and maintain the electronic equipment used to transmit radio and television programs. Control audio equipment to regulate volume level and quality of sound during radio and television broadcasts. Operate transmitter to broadcast radio or television programs. Requires an Associate's Degree.

Sound Engineering Technicians (SOC: 27-4014)

Operate machines and equipment to record, synchronize, mix, or reproduce music, voices, or sound effects in sporting arenas, theater productions, recording studios, or movie and video productions. Requires a Postsecondary Non-Degree Award.

Camera Operators, Television, Video, and Motion Picture (SOC: 27-4031)

Operate television, video, or motion picture camera to record images or scenes for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. Requires a Bachelor's or Higher.

Film and Video Editors (SOC: 27-4032)

Edit moving images on film, video, or other media. May edit or synchronize soundtracks with images. Requires a Bachelor's or Higher.

Film, Television, and Video

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Basic Television Production	060420			✚
Production Specialist	060420			● ◇

✚ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇ *Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
27-2012	Producers and Directors	399	411	12	3%	$14.56	$24.85	$32.33
27-3011	Radio and Television Announcers	339	304	(35)	(10%)	$9.40	$12.61	$23.74
27-3021	Broadcast News Analysts	25	18	(7)	(28%)	$14.60	$21.69	$46.53
27-4011	Audio and Video Equipment Technicians	689	743	54	8%	$10.83	$16.29	$27.16
27-4012	Broadcast Technicians	97	65	(32)	(33%)	$13.76	$24.28	$30.54
27-4014	Sound Engineering Technicians	104	116	12	12%	$13.06	$18.13	$28.36
27-4031	Camera Operators, Television, Video, and Motion Picture	90	98	8	9%	$15.97	$21.83	$26.09
27-4032	Film and Video Editors	115	152	37	32%	$14.33	$20.46	$33.01
	Total	1,859	1,907	48	3%	$12.18	$18.53	$28.46

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
27-2012	Producers and Directors	411	425	14	3%	19
27-3011	Radio and Television Announcers	304	281	(23)	(8%)	11
27-3021	Broadcast News Analysts	18	16	(2)	(11%)	Insf. Data
27-4011	Audio and Video Equipment Technicians	743	793	50	7%	25
27-4012	Broadcast Technicians	65	60	(5)	(8%)	Insf. Data
27-4014	Sound Engineering Technicians	116	123	7	6%	4
27-4031	Camera Operators, Television, Video, and Motion Picture	98	103	5	5%	2
27-4032	Film and Video Editors	152	166	14	9%	5
	Total	1,907	1,968	61	3%	68

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
27-4031	Camera Operators, Television, Video, and Motion Picture	33
27-3011	Radio and Television Announcers	27
27-4011	Audio and Video Equipment Technicians	25
27-4012	Broadcast Technicians	22
27-2012	Producers and Directors	22
27-4014	Sound Engineering Technicians	20
27-4032	Film and Video Editors	1
	Total	150

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
512110	Motion Picture and Video Production	268	297	29	11%
515112	Radio Stations	226	200	(26)	(12%)
515120	Television Broadcasting	101	88	(13)	(13%)
711510	Independent Artists, Writers, and Performers	95	100	5	5%
903612	Colleges, Universities, and Professional Schools (Local Government)	70	78	8	11%
515111	Radio Networks	62	52	(10)	(16%)
813110	Religious Organizations	61	66	5	8%
611310	Colleges, Universities, and Professional Schools	51	66	15	29%
903999	Local Government, Excluding Education and Hospitals	53	58	5	9%
711310	Promoters of Performing Arts, Sports, and Similar Events with Facilities	36	52	16	44%
512240	Sound Recording Studios	40	40	0	0%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	-	-	-	-
Riverside	24	9	33	11
RCCD Total	**24**	**9**	**33**	**11**
Other Community Colleges Total	**-**	**-**	**-**	**-**
Grand Total	**24**	**9**	**33**	**11**

Source: Data Mart

Fire Technology

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Fire Technology is 213300.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Fire Technology is 430201.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Fire Technology are: Forest and Conservation Technicians (SOC: 19-4093), First-Line Supervisors of Fire Fighting and Prevention Workers (SOC: 33-1021), Firefighters (SOC: 33-2011), Fire Inspectors and Investigators (SOC: 33-2021), Forest Fire Inspectors and Prevention Specialists (SOC: 33-2022), Police, Fire, and Ambulance Dispatchers (SOC: 43-5031), Security and Fire Alarm Systems Installers (SOC: 49-2098).

Background Information: Fire Technology Occupations

Forest and Conservation Technicians (SOC: 19-4093)
Provide technical assistance regarding the conservation of soil, water, forests, or related natural resources. May compile data pertaining to size, content, condition, and other characteristics of forest tracts, under the direction of foresters; or train and lead forest workers in forest propagation, fire prevention and suppression. May assist conservation scientists in managing, improving, and protecting rangelands and wildlife habitats. Requires an Associate's Degree.

First-Line Supervisors of Fire Fighting and Prevention Workers (SOC: 33-1021)
Directly supervise and coordinate activities of workers engaged in fire fighting and fire prevention and control. Requires a Postsecondary Non-Degree Award.

Firefighters (SOC: 33-2011)
Control and extinguish fires or respond to emergency situations where life, property, or the environment is at risk. Duties may include fire prevention, emergency medical service, hazardous material response, search and rescue, and disaster assistance. Requires a Postsecondary Non-Degree Award.

Fire Inspectors and Investigators (SOC: 33-2021)
Inspect buildings to detect fire hazards and enforce local ordinances and State laws, or investigate and gather facts to determine cause of fires and explosions. Requires a Postsecondary Non-Degree Award.

Forest Fire Inspectors and Prevention Specialists (SOC: 33-2022)
Enforce fire regulations, inspect forest for fire hazards and recommend forest fire prevention or control measures. May report forest fires and weather conditions. On-The-Job Training, No College Required.

Police, Fire, and Ambulance Dispatchers (SOC: 43-5031)
Operate radio, telephone, or computer equipment at emergency response centers. Receive reports from the public of crimes, disturbances, fires, and medical or police emergencies. Relay information to law enforcement and emergency response personnel. May maintain contact with caller until responders arrive. On-The-Job Training, No College Required.

Security and Fire Alarm Systems Installers (SOC: 49-2098)
Install, program, maintain, or repair security or fire alarm wiring and equipment. Ensure that work is in accordance with relevant codes. On-The-Job Training, No College Required.

Fire Technology

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Fire Technology	213300	● ◇		
Chief Officer	213300	● ◇		
Fire Officer	213300	● ◇		
Firefighter Academy	213350	● ◇		

✚ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
19-4093	Forest and Conservation Technicians	705	657	(48)	(7%)	$15.46	$19.17	$28.61
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	268	272	4	1%	$30.93	$40.28	$81.50
33-2011	Firefighters	3,532	3,566	34	1%	$18.81	$26.04	$43.35
33-2021	Fire Inspectors and Investigators	46	46	0	0%	$28.76	$33.62	$44.98
33-2022	Forest Fire Inspectors and Prevention Specialists	<10	<10	Insf. Data	Insf. Data	Insf. Data	Insf. Data	Insf. Data
43-5031	Police, Fire, and Ambulance Dispatchers	870	843	(27)	(3%)	$16.53	$25.60	$32.04
49-2098	Security and Fire Alarm Systems Installers	424	540	116	27%	$17.00	$22.80	$29.72
	Total	5,854	5,934	80	1%	$18.55	$25.58	$40.51

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
19-4093	Forest and Conservation Technicians	657	668	11	2%	31
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	272	302	30	11%	20
33-2011	Firefighters	3,566	3,780	214	6%	150
33-2021	Fire Inspectors and Investigators	46	51	5	11%	2
33-2022	Forest Fire Inspectors and Prevention Specialists	<10	10	Insf. Data	Insf. Data	Insf. Data
43-5031	Police, Fire, and Ambulance Dispatchers	843	871	28	3%	27
49-2098	Security and Fire Alarm Systems Installers	540	579	39	7%	22
	Total	5,934	6,261	327	6%	254

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
43-5031	Police, Fire, and Ambulance Dispatchers	84
49-2098	Security and Fire Alarm Systems Installers	78
33-2011	Firefighters	37
19-4093	Forest and Conservation Technicians	29
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	26
33-2021	Fire Inspectors and Investigators	24
33-2022	Forest Fire Inspectors and Prevention Specialists	4
	Total	282

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
903999	Local Government, Excluding Education and Hospitals	4,498	4,767	269	6%
901199	Federal Government, Civilian, Excluding Postal Service	560	564	4	1%
561621	Security Systems Services (except Locksmiths)	270	280	10	4%
238210	Electrical Contractors and Other Wiring Installation Contractors	117	134	17	15%
902999	State Government, Excluding Education and Hospitals	116	120	4	3%
621910	Ambulance Services	74	80	6	8%
561622	Locksmiths	40	39	(1)	(3%)
561990	All Other Support Services	32	30	(2)	(6%)
561612	Security Guards and Patrol Services	28	30	2	7%
238220	Plumbing, Heating, and Air-Conditioning Contractors	18	21	3	17%
561611	Investigation Services	16	16	0	0%
561910	Packaging and Labeling Services	12	12	0	0%
902612	Colleges, Universities, and Professional Schools (State Government)	12	13	1	8%
611310	Colleges, Universities, and Professional Schools	10	13	3	30%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	112	77	189	63
Norco College	-	-	-	-
Riverside	1	4	5	2
Total	**113**	**81**	**194**	**65**
Barstow	0	1	1	0
Chaffey	21	26	47	16
Desert	41	8	49	16
Copper Mountain	3	7	10	3
Crafton Hills	135	66	201	67
Mt. San Jacinto	16	28	44	15
Palo Verde	1	1	2	0
Victor Valley	3	64	67	22
Other Community Colleges Total	**220**	**201**	**421**	**139**
Grand Total	**333**	**282**	**615**	**204**

Source: Data Mart

Game Development

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Game Development are 061420 and 070710.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Game Development are 513801, 513901, and 513902.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Game Development are Computer Programmers (SOC: 15-1131), Software Developers, Applications (SOC: 15-1132), Software Developers, Systems Software (SOC: 15-1133), Web Developers (SOC: 15-1134), Multimedia Artists and Animators (SOC: 27-1014).

Background Information: Game Development Occupations

Computer Programmers (SOC: 15-1131)
Create, modify, and test the code, forms, and script that allow computer applications to run. Work from specifications drawn up by software developers or other individuals. May assist software developers by analyzing user needs and designing software solutions. May develop and write computer programs to store, locate, and retrieve specific documents, data, and information. Requires a Bachelor's or Higher.

Software Developers, Applications (SOC: 15-1132)
Develop, create, and modify general computer applications software or specialized utility programs. Analyze user needs and develop software solutions. Design software or customize software for client use with the aim of optimizing operational efficiency. May analyze and design databases within an application area, working individually or coordinating database development as part of a team. May supervise computer programmers. Requires a Bachelor's or Higher.

Software Developers, Systems Software (SOC: 15-1133)

Research, design, develop, and test operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computing applications. Set operational specifications and formulate and analyze software requirements. May design embedded systems software. Apply principles and techniques of computer science, engineering, and mathematical analysis. Requires a Bachelor's or Higher.

Web Developers (SOC: 15-1134)

Design, create, and modify Web sites. Analyze user needs to implement Web site content, graphics, performance, and capacity. May integrate Web sites with other computer applications. May convert written, graphic, audio, and video components to compatible Web formats by using software designed to facilitate the creation of Web and multimedia content. Requires an Associate's Degree.

Multimedia Artists and Animators (SOC: 27-1014)

Create special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in products or creations, such as computer games, movies, music videos, and commercials. Requires a Bachelor's or Higher.

Game Development

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Game Art: 3D Animation	061420		● ◇	
Game Art: Character Modeling	061420		● ◇	
Game Art: Environments and Vehicles	061420		● ◇	
Game Art Core	061420		✚	
Game Design	061420		● ◇	
Game Programming	070710		● ◇	

✚ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
15-1131	Computer Programmers	973	925	(48)	(5%)	$19.75	$32.57	$48.20
15-1132	Software Developers, Applications	2,550	2,786	236	9%	$31.53	$44.61	$64.22
15-1133	Software Developers, Systems Software	667	652	(15)	(2%)	$29.21	$47.60	$63.60
15-1134	Web Developers	830	993	163	20%	$13.35	$23.09	$42.04
27-1014	Multimedia Artists and Animators	261	280	19	7%	$9.18	$13.02	$18.13
	Total	5,281	5,636	355	7%	$24.99	$37.56	$55.26

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
15-1131	Computer Programmers	925	952	27	3%	31
15-1132	Software Developers, Applications	2,786	3,056	270	10%	97
15-1133	Software Developers, Systems Software	652	750	98	15%	30
15-1134	Web Developers	993	1,142	149	15%	44
27-1014	Multimedia Artists and Animators	280	286	6	2%	7
	Total	5,636	6,186	550	10%	210

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
15-1132	Software Developers, Applications	1,533
15-1134	Web Developers	501
15-1131	Computer Programmers	253
15-1133	Software Developers, Systems Software	19
27-1014	Multimedia Artists and Animators	17
	Total	2,323

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
541511	Custom Computer Programming Services	736	789	53	7%
541512	Computer Systems Design Services	397	398	1	0%
511210	Software Publishers	105	143	38	36%
518210	Data Processing, Hosting, and Related Services	77	99	22	29%
711510	Independent Artists, Writers, and Performers	83	82	(1)	(1%)

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	6	10	16	5
Norco College	37	17	54	18
Riverside	43	23	66	22
RCCD Total	86	50	136	45
Copper Mountain	2	3	5	2
Mt. San Jacinto	16	0	16	5
San Bernardino	2	0	2	1
Victor Valley	1	0	1	0
Other Community Colleges Total	21	3	24	8
Grand Total	107	53	160	53

Source: Data Mart

Human Services

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Human Services is 210400

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Human Services is 440000.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Human Services is Child, Family, and School Social Workers (SOC: 21-1021), Health Educators (SOC: 21-1091), Social and Human Service Assistants (SOC: 21-1093), Community Health Workers (SOC: 21-1094).

Background Information: Human Services Occupations

Child, Family, and School Social Workers (SOC: 21-1021)
Provide social services and assistance to improve the social and psychological functioning of children and their families and to maximize the family well-being and the academic functioning of children. May assist parents, arrange adoptions, and find foster homes for abandoned or abused children. In schools, they address such problems as teenage pregnancy, misbehavior, and truancy. May also advise teachers. Requires a Bachelor's or Higher.

Health Educators (SOC: 21-1091)
Provide and manage health education programs that help individuals, families, and their communities maximize and maintain healthy lifestyles. Collect and analyze data to identify community needs prior to planning, implementing, monitoring, and evaluating programs designed to encourage healthy lifestyles, policies, and environments. May serve as a resource to assist individuals, other healthcare workers, or the community, and may administer fiscal resources for health education programs. Requires a Bachelor's or Higher.

Social and Human Service Assistants (SOC: 21-1093)

Assist in providing client services in a wide variety of fields, such as psychology, rehabilitation, or social work, including support for families. May assist clients in identifying and obtaining available benefits and social and community services. May assist social workers with developing, organizing, and conducting programs to prevent and resolve problems relevant to substance abuse, human relationships, rehabilitation, or dependent care. On-The-Job Training, No College Required.

Community Health Workers (SOC: 21-1094)

Assist individuals and communities to adopt healthy behaviors. Conduct outreach for medical personnel or health organizations to implement programs in the community that promote, maintain, and improve individual and community health. May provide information on available resources, provide social support and informal counseling, advocate for individuals and community health needs, and provide services such as first aid and blood pressure screening. May collect data to help identify community health needs. On-The-Job Training, No College Required.

Human Services

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Human Services	210400	● ◇		● ◇
Employment Support Specialization	210400	✚		✚

✚ Locally Approved Certificate   ● State Approved Certificate   ◇ Associates Degree

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
21-1021	Child, Family, and School Social Workers	1,444	1,844	400	28%	$13.58	$24.14	$33.58
21-1091	Health Educators	391	472	81	21%	$10.99	$21.97	$42.28
21-1093	Social and Human Service Assistants	1,597	3,310	1,713	107%	$9.67	$14.60	$24.29
21-1094	Community Health Workers	240	440	200	83%	$13.54	$18.46	$33.61
	Total	3,672	6,066	2,394	65%	$11.26	$18.40	$29.26

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
21-1021	Child, Family, and School Social Workers	1,844	2,099	255	14%	100
21-1091	Health Educators	472	532	60	13%	22
21-1093	Social and Human Service Assistants	3,310	3,971	661	20%	206
21-1094	Community Health Workers	440	528	88	20%	27
	Total	6,066	7,130	1,064	18%	355

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
21-1091	Health Educators	214
21-1093	Social and Human Service Assistants	119
21-1021	Child, Family, and School Social Workers	44
21-1094	Community Health Workers	14
	Total	391

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
624120	Services for the Elderly and Persons with Disabilities	2,405	3,237	832	35%
903999	Local Government, Excluding Education and Hospitals	763	825	62	8%
902999	State Government, Excluding Education and Hospitals	319	326	7	2%
903611	Elementary and Secondary Schools (Local Government)	270	295	25	9%
623220	Residential Mental Health and Substance Abuse Facilities	194	230	36	19%
624110	Child and Youth Services	170	180	10	6%
623210	Residential Intellectual and Developmental Disability Facilities	163	155	(8)	(5%)
624310	Vocational Rehabilitation Services	127	114	(13)	(10%)
622110	General Medical and Surgical Hospitals	114	138	24	21%
621420	Outpatient Mental Health and Substance Abuse Centers	91	116	25	27%
813110	Religious Organizations	82	86	4	5%
621111	Offices of Physicians (except Mental Health Specialists)	65	81	16	25%
624221	Temporary Shelters	46	46	0	0%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	46	21	67	22
Norco College	-*	-	-	-
Riverside	4	2	6	2
RCCD Total	50	23	73	24
Other Community Colleges Total	-	-	-	-
Grand Total	50	23	73	24

Source: Data Mart

There were 40 completions from other institutions in the region between 2011-2014. They included:
University of Redlands

Kinesiology/Exercise, Sport, and Wellness

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Kinesiology/Exercise, Sport, and Wellness are 083520, 083560, and 122800.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Kinesiology/Exercise, Sport, and Wellness are 310504, 310507, and 510913.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Kinesiology/Exercise, Sport, and Wellness are: Coaches and Scouts (SOC: 27-2022), Athletic Trainers (SOC: 29-9091), Fitness Trainers and Aerobics Instructors (SOC: 39-9031).

Background Information:

Coaches and Scouts (SOC: 27-2022)
Instructor coach groups or individuals in the fundamentals of sports. Demonstrate techniques and methods of participation. May evaluate athletes' strengths and weaknesses as possible recruits or to improve the athletes' technique to prepare them for competition. Those required to hold teaching degrees should be reported in the appropriate teaching category. Requires a Bachelor's or Higher.

Athletic Trainers (SOC: 29-9091)
Evaluate and advise individuals to assist recovery from or avoid athletic-related injuries or illnesses, or maintain peak physical fitness. May provide first aid or emergency care. Requires a Bachelor's or Higher.

Fitness Trainers and Aerobics Instructors (SOC: 39-9031)
Instructor coach groups or individuals in exercise activities. Demonstrate techniques and form, observe participants, and explain to them corrective measures necessary to improve their skills. On-The-Job Training, No College Required.

Kinesiology/Exercise, Sport, and Wellness

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Athletic Training Emphasis	122800			● ◇
Coaching Emphasis	083560			● ◇
Fitness Professions Emphasis	083520			● ◇

✦ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
27-2022	Coaches and Scouts	1,810	2,021	211	12%	$9.83	$14.15	$27.03
29-9091	Athletic Trainers	86	107	21	24%	$12.52	$18.11	$32.98
39-9031	Fitness Trainers and Aerobics Instructors	2,195	2,738	543	25%	$10.50	$16.02	$32.90
	Total	4,091	4,866	775	19%	$10.26	$15.26	$30.39

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
27-2022	Coaches and Scouts	2,021	2,205	184	9%	110
29-9091	Athletic Trainers	107	131	24	22%	7
39-9031	Fitness Trainers and Aerobics Instructors	2,738	3,104	366	13%	128
	Total	4,866	5,441	575	12%	245

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
27-2022	Coaches and Scouts	766
39-9031	Fitness Trainers and Aerobics Instructors	294
29-9091	Athletic Trainers	22
	Total	1,082

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
713940	Fitness and Recreational Sports Centers	1,965	2,233	268	14%
903611	Elementary and Secondary Schools (Local Government)	562	575	13	2%
903999	Local Government, Excluding Education and Hospitals	213	225	12	6%
611620	Sports and Recreation Instruction	178	197	19	11%
813410	Civic and Social Organizations	158	168	10	6%
713910	Golf Courses and Country Clubs	157	173	16	10%
611310	Colleges, Universities, and Professional Schools	104	132	28	27%
611110	Elementary and Secondary Schools	93	102	9	10%
611610	Fine Arts Schools	96	104	8	8%
624120	Services for the Elderly and Persons with Disabilities	50	63	13	26%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	-	-	-	-
Riverside	22	17	39	13
RCCD Total	22	17	39	13
Chaffey	2	0	2	1
Desert	13	0	13	4
Other Community Colleges Total	15	0	15	5
Grand Total	37	17	54	18

Source: Data Mart

There were 141 completions from other institutions in the region between 2011 -2014. They included:
Milan Institute- Palm Desert
InterCoast Colleges-Riverside
Westech College
Loma Linda University

Logistics Management

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Logistics Management is 051000.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Logistics Management is 520203.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Logistics Management are: Transportation, Storage, and Distribution Managers (SOC: 11-3071), Logisticians (SOC: 13-1081), Cargo and Freight Agents (SOC: 43-5011), Production, Planning, and Expediting Clerks (SOC: 43-5061), and First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators (SOC: 53-1031).

Background Information: Logistics Management Occupations

Transportation, Storage, and Distribution Managers (SOC: 11-3071)
Plan, direct, or coordinate transportation, storage, or distribution activities in accordance with organizational policies and applicable government laws or regulations. Includes logistics managers. On-The-Job Training, No College Required.

Logisticians (SOC: 13-1081)
Analyze and coordinate the logistical functions of a firm or organization. Responsible for the entire life cycle of a product, including acquisition, distribution, internal allocation, delivery, and final disposal of resources. Requires a Bachelor's or Higher.

Cargo and Freight Agents (SOC: 43-5011)
Expedite and route movement of incoming and outgoing cargo and freight shipments in airline, train, and trucking terminals, and shipping docks. Take orders from customers and arrange pickup of freight and cargo for delivery to loading platform. Prepare and examine bills of lading to determine shipping charges and tariffs. On-The-Job Training, No College Required.

Production, Planning, and Expediting Clerks (SOC: 43-5061)
Coordinate and expedite the flow of work and materials within or between departments of an establishment according to production schedule. Duties include reviewing and distributing production, work, and shipment schedules; conferring with department supervisors to determine progress of work and completion dates; and compiling reports on progress of work, inventory levels, costs, and production problems. On-The-Job Training, No College Required.

First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators (SOC: 53-1031)
Directly supervise and coordinate activities of transportation and material-moving machine and vehicle operators and helpers. On-The-Job Training, No College Required.

Logistics Management

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Logistics Management	051000		● ◇	

✚ *Locally Approved Certificate*　● *State Approved Certificate*　◇ *Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
11-3071	Transportation, Storage, and Distribution Managers	1,266	1,662	396	31%	$26.62	$39.68	$56.96
13-1081	Logisticians	813	917	104	13%	$22.51	$34.85	$56.48
43-5011	Cargo and Freight Agents	444	621	177	40%	$12.59	$17.91	$27.98
43-5061	Production, Planning, and Expediting Clerks	2,617	3,177	560	21%	$11.54	$18.98	$29.44
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	2,058	2,602	544	26%	$17.91	$26.20	$37.61
	Total	7,199	8,979	1,780	25%	$17.34	$26.41	$39.52

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
11-3071	Transportation, Storage, and Distribution Managers	1,662	1,949	287	17%	100
13-1081	Logisticians	917	1,018	101	11%	34
43-5011	Cargo and Freight Agents	621	814	193	31%	63
43-5061	Production, Planning, and Expediting Clerks	3,177	3,430	253	8%	142
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	2,602	2,989	387	15%	171
	Total	8,979	10,201	1,222	14%	511

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
11-3071	Transportation, Storage, and Distribution Managers	750
43-5061	Production, Planning, and Expediting Clerks	291
13-1081	Logisticians	189
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	127
43-5011	Cargo and Freight Agents	38
	Total	1,395

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
493110	General Warehousing and Storage	1,150	1,655	505	44%
488510	Freight Transportation Arrangement	404	565	161	40%
903999	Local Government, Excluding Education and Hospitals	365	385	20	5%
901199	Federal Government, Civilian, Excluding Postal Service	321	323	2	1%
492110	Couriers and Express Delivery Services	296	338	42	14%
484121	General Freight Trucking, Long-Distance, Truckload	289	341	52	18%
484110	General Freight Trucking, Local	264	316	52	20%
484122	General Freight Trucking, Long-Distance, Less Than Truckload	210	226	16	8%
482110	Rail transportation	191	182	(9)	(5%)
484220	Specialized Freight (except Used Goods) Trucking, Local	116	115	(1)	(1%)

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions Academic Years 2011-2015

051000 - Logistics and Materials Transportation	2011-12	2012-13	2013-14	2014-15	Latest Available 3 Yr Avg*
Riverside Community College District					
Norco College					
Associate Degree	-	9	8	10	9
Certificate 30 to < 60 semester units	-	6	9	8	8
Certificate 18 to < 30 semester units	-	9	8	7	8
Norco College Total	-	24	25	25	25
Other Regional Community Colleges					
Barstow Community College					
Associate Degree	-	-	1	3	1
Barstow Community College Total	-	-	1	3	1
Chaffey College					
Associate Degree	-	3	2	-	2
Chaffey College Total	-	3	2	-	2
San Bernardino Valley College					
Award < 1 academic yr	1	-	-		0
San Bernardino Valley College Total	1	-	-		0
Other Education Institutions					
University of Redlands					
Award < 1 academic yr	-	-	12		4
University of Redlands Total	-	-	12		4
051000 - Logistics and Materials Transportation Total	1	27	40	28	32

Source: Data Mart

*3 Year Average for Community Colleges is 2012-15 and for Other Education Institutions is 2011-14

Manufacturing Technology

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Manufacturing Technology are 095600 and 095630.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Manufacturing Technology are 150613 and 480501.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Manufacturing Technology are: Industrial Engineering Technicians (SOC: 17-3026), Occupational Health and Safety Specialists (SOC: 29-9011), Computer-Controlled Machine Tool Operators, Metal and Plastic (SOC: 51-4011), Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (SOC: 51-4012), Forging Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4022), Rolling Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4023), Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4031), Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4032), Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4033), Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4034), Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4035), Machinists (SOC: 51-4041), Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4081), Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4191), Layout Workers, Metal and Plastic (SOC: 51-4192), Metal Workers and Plastic Workers, All Other (SOC: 51-4199), Inspectors, Testers, Sorters, Samplers, and Weighers (SOC: 51-9061).

Background Information: Manufacturing Technology Occupations

Industrial Engineering Technicians (SOC: 17-3026)
Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. May perform time and motion studies on worker operations in a variety of industries for purposes such as establishing standard production rates or improving efficiency. Requires an Associate's Degree.

Occupational Health and Safety Specialists (SOC: 29-9011)
Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors. May conduct inspections and enforce adherence to laws and regulations governing the health and safety of individuals. May be employed in the public or private sector. Includes environmental protection officers. Requires a Bachelor's or Higher.

Computer-Controlled Machine Tool Operators, Metal and Plastic (SOC: 51-4011)
Operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces. On-The-Job Training, No College Required.

Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (SOC: 51-4012)
Develop programs to control machining or processing of metal or plastic parts by automatic machine tools, equipment, or systems. On-The-Job Training, No College Required.

Forging Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4022)
Set up, operate, or tend forging machines to taper, shape, or form metal or plastic parts. On-The-Job Training, No College Required.

Rolling Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4023)
Set up, operate, or tend machines to roll steel or plastic forming bends, beads, knurls, rolls, or plate or to flatten, temper, or reduce gauge of material. On-The-Job Training, No College Required.

Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4031)
Set up, operate, or tend machines to saw, cut, shear, slit, punch, crimp, notch, bend, or straighten metal or plastic material. On-The-Job Training, No College Required.

Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4032)
Set up, operate, or tend drilling machines to drill, bore, ream, mill, or countersink metal or plastic work pieces. On-The-Job Training, No College Required.

Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4033)
Set up, operate, or tend grinding and related tools that remove excess material or burrs from surfaces, sharpen edges or corners, or buff, hone, or polish metal or plastic work pieces. On-The-Job Training, No College Required.

Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4034)
Set up, operate, or tend lathe and turning machines to turn, bore, thread, form, or face metal or plastic materials, such as wire, rod, or bar stock. On-The-Job Training, No College Required.

Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4035)

Set up, operate, or tend milling or planing machines to mill, plane, shape, groove, or profile metal or plastic work pieces. On-The-Job Training, No College Required.

Machinists (SOC: 51-4041)

Set up and operate a variety of machine tools to produce precision parts and instruments. Includes precision instrument makers who fabricate, modify, or repair mechanical instruments. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, mathematics, metal properties, layout, and machining procedures. On-The-Job Training, No College Required.

Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4081)

Set up, operate, or tend more than one type of cutting or forming machine tool or robot. On-The-Job Training, No College Required.

Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4191)

Set up, operate, or tend heating equipment, such as heat-treating furnaces, flame-hardening machines, induction machines, soaking pits, or vacuum equipment to temper, harden, anneal, or heat-treat metal or plastic objects. On-The-Job Training, No College Required,

Layout Workers, Metal and Plastic (SOC: 51-4192)

Lay out reference points and dimensions on metal or plastic stock or workpieces, such as sheets, plates, tubes, structural shapes, castings, or machine parts, for further processing. Includes shipfitters. On-The-Job Training, No College Required.

Metal Workers and Plastic Workers, All Other (SOC: 51-4199)

All metal workers and plastic workers not listed separately. On-The-Job Training, No College Required.

Inspectors, Testers, Sorters, Samplers, and Weighers (SOC: 51-9061)

Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments and complex test equipment. On-The-Job Training, No College Required.

Manufacturing Technology

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Automated Systems Technician	095600		● ◇	
Computer-Aided Production Technology	095600		✚	
Computer Numerical Control Programming	095630		● ◇	

✚ *Locally Approved Certificate*　● *State Approved Certificate*　◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
17-3026	Industrial Engineering Technicians	333	349	16	5%	$17.17	$23.40	$35.74
29-9011	Occupational Health and Safety Specialists	378	413	35	9%	$23.14	$35.75	$44.60
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	694	917	223	32%	$10.81	$16.74	$25.94
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	154	213	59	38%	$15.47	$25.71	$32.45
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	257	330	73	28%	$11.29	$15.39	$23.39
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	337	383	46	14%	$11.10	$14.69	$22.78
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1,575	1,772	197	13%	$11.27	$15.16	$23.15
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	179	219	40	22%	$9.65	$12.99	$20.81
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	633	694	61	10%	$9.25	$13.53	$22.04
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	367	456	89	24%	$10.58	$16.82	$25.61
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	363	436	73	20%	$10.41	$15.77	$23.35
51-4041	Machinists	3,042	3,944	902	30%	$10.17	$16.12	$27.27
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	372	399	27	7%	$10.48	$15.21	$21.94
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	87	93	6	7%	$11.02	$15.82	$23.19
51-4192	Layout Workers, Metal and Plastic	47	52	5	11%	$15.03	$20.50	$31.67
51-4199	Metal Workers and Plastic Workers, All Other	288	299	11	4%	$9.10	$12.22	$19.81
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	3,666	4,282	616	17%	$10.60	$16.26	$27.94
	Total	12,772	15,251	2,479	19%	$11.07	$16.62	$26.64

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
17-3026	Industrial Engineering Technicians	349	344	(5)	(1%)	10
29-9011	Occupational Health and Safety Specialists	413	447	34	8%	16
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	917	1,030	113	12%	53
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	213	236	23	11%	12
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	330	307	(23)	(7%)	8
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	383	366	(17)	(4%)	10
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1,772	1,634	(138)	(8%)	24
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	219	205	(14)	(6%)	4
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	694	619	(75)	(11%)	28
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	456	433	(23)	(5%)	11
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	436	401	(35)	(8%)	7
51-4041	Machinists	3,944	4,190	246	6%	171
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	399	417	18	5%	12
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	93	88	(5)	(5%)	Insf. Data
51-4192	Layout Workers, Metal and Plastic	52	46	(6)	(12%)	Insf. Data
51-4199	Metal Workers and Plastic Workers, All Other	299	264	(35)	(12%)	5
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	4,282	4,465	183	4%	148
	Total	15,251	15,491	240	2%	520

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	496
29-9011	Occupational Health and Safety Specialists	180
51-4041	Machinists	128
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	75
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	69
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	53
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	31
51-4199	Metal Workers and Plastic Workers, All Other	11
17-3026	Industrial Engineering Technicians	5
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	4
51-4192	Layout Workers, Metal and Plastic	4
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	3
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	3
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	2
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	2
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	1
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	0
	Total	1,067

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
332710	Machine Shops	1,490	1,568	78	5%
561320	Temporary Help Services	1,065	1,124	59	6%
326199	All Other Plastics Product Manufacturing	424	407	(17)	(4%)
331110	Iron and Steel Mills and Ferroalloy Manufacturing	378	345	(33)	(9%)
332111	Iron and Steel Forging	319	376	57	18%
493110	General Warehousing and Storage	271	402	131	48%
336390	Other Motor Vehicle Parts Manufacturing	286	302	16	6%
332322	Sheet Metal Work Manufacturing	265	307	42	16%
332722	Bolt, Nut, Screw, Rivet, and Washer Manufacturing	250	325	75	30%
332114	Custom Roll Forming	262	256	(6)	(2%)
333511	Industrial Mold Manufacturing	233	234	1	0%
332721	Precision Turned Product Manufacturing	246	298	52	21%
326160	Plastics Bottle Manufacturing	224	248	24	11%
336413	Other Aircraft Parts and Auxiliary Equipment Manufacturing	234	233	(1)	(0%)
339112	Surgical and Medical Instrument Manufacturing	217	131	(86)	(40%)
331318	Other Aluminum Rolling, Drawing, and Extruding	181	189	8	4%
332312	Fabricated Structural Metal Manufacturing	182	198	16	9%
332321	Metal Window and Door Manufacturing	165	139	(26)	(16%)
332912	Fluid Power Valve and Hose Fitting Manufacturing	176	194	18	10%
333517	Machine Tool Manufacturing	141	179	38	27%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	11	5	16	5
Riverside	-	-	-	-
RCCD Total	**11**	**5**	**16**	**5**
San Bernardino	37	9	46	15
Other Community Colleges Total	**37**	**9**	**46**	**15**
Grand Total	**48**	**14**	**62**	**20**

Source: Data Mart

There were 141 completions from other institutions in the region between 2011-2014. They included:
Milan Institute- Palm Desert
InterCoast Colleges-Riverside
Westech College
Loma Linda University

Medical Assisting

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Medical Assisting is 120800.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Medical Assisting is 510801.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Medical Assisting are Medical Records and Health Information Technicians (SOC: 29-2071), Medical Assistants (SOC: 31-9092), Medical Transcriptionists (SOC: 31-9094), Medical Secretaries (SOC: 43-6013).

Background Information: Medical Assisting Occupations

Medical Records and Health Information Technicians (SOC: 29-2071)
Compile, process, and maintain medical records of hospital and clinic patients in a manner consistent with medical, administrative, ethical, legal, and regulatory requirements of the health care system. Process, maintain, compile, and report patient information for health requirements and standards in a manner consistent with the healthcare industry's numerical coding system. Requires a Postsecondary Non-Degree Award.

Medical Assistants (SOC: 31-9092)
Perform administrative and certain clinical duties under the direction of a physician. Administrative duties may include scheduling appointments, maintaining medical records, billing, and coding information for insurance purposes. Clinical duties may include taking and recording vital signs and medical histories, preparing patients for examination, drawing blood, and administering medications as directed by physician. Requires a Postsecondary Non-Degree Award.

Medical Transcriptionists (SOC: 31-9094)
Transcribe medical reports recorded by physicians and other healthcare practitioners using various electronic devices, covering office visits, emergency room visits, diagnostic imaging studies, operations, chart reviews, and final summaries. Transcribe dictated reports and translate abbreviations into fully understandable form. Edit as necessary and return reports in

either printed or electronic form for review and signature, or correction. Requires a Postsecondary Non-Degree Award.

Medical Secretaries (SOC: 43-6013)
Perform secretarial duties using specific knowledge of medical terminology and hospital, clinic, or laboratory procedures. Duties may include scheduling appointments, billing patients, and compiling and recording medical charts, reports, and correspondence. On-The-Job Training, No College Required.

Medical Assisting

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Admin/Clinical Medical Assisting	120800	● ◇		
Medical Transcription	120800	● ◇		

✦ *Locally Approved Certificate* ● *State Approved Certificate* ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
29-2071	Medical Records and Health Information Technicians	1,378	1,601	223	16%	$10.97	$20.34	$35.74
31-9092	Medical Assistants	5,882	7,394	1,512	26%	$9.77	$13.21	$18.36
31-9094	Medical Transcriptionists	359	410	51	14%	$14.61	$18.87	$22.28
43-6013	Medical Secretaries	4,906	5,959	1,053	21%	$10.41	$14.71	$22.07
	Total	12,525	15,364	2,839	23%	$10.27	$14.69	$21.72

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
29-2071	Medical Records and Health Information Technicians	1,601	1,854	253	16%	90
31-9092	Medical Assistants	7,394	8,633	1,239	17%	422
31-9094	Medical Transcriptionists	410	469	59	14%	21
43-6013	Medical Secretaries	5,959	6,850	891	15%	247
	Total	15,364	17,805	2,441	16%	781

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
29-2071	Medical Records and Health Information Technicians	915
31-9092	Medical Assistants	701
43-6013	Medical Secretaries	586
31-9094	Medical Transcriptionists	45
	Total	2,247

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
621111	Offices of Physicians (except Mental Health Specialists)	8,095	9,535	1,440	18%
622110	General Medical and Surgical Hospitals	2,132	2,473	341	16%
621210	Offices of Dentists	877	946	69	8%
903622	Hospitals (Local Government)	503	530	27	5%
621310	Offices of Chiropractors	297	315	18	6%
621320	Offices of Optometrists	258	294	36	14%
623110	Nursing Care Facilities (Skilled Nursing Facilities)	227	256	29	13%
621492	Kidney Dialysis Centers	214	269	55	26%
621610	Home Health Care Services	185	215	30	16%
902622	Hospitals (State Government)	134	150	16	12%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	54	35	89	30
Norco College	-	-	-	-
Riverside	0	1	1	0
RCCD Total	**54**	**36**	**90**	**30**
Mt. San Jacinto	4	4	8	3
Victor Valley	13	13	26	9
Other Community Colleges Total	**17**	**17**	**34**	**12**
Grand Total	**71**	**53**	**124**	**42**

Source: Data Mart

There were 7,143 completions from other institutions in the region between 2011 -2014. They included:
American College of Healthcare
Everest College
Mayfield College
Milan Institute- Palm Desert
Platt College
Summit College
Westech College

Music Industry Studies

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Commercial Music are 061410 and 100500.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Commercial Music are 100203 and 100304.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Commercial Music are: Audio-Visual and Multimedia Collections Specialists (SOC: 25-9011), Music Directors and Composers (SOC: 27-2041), Musicians and Singers (SOC: 27-2042), Audio and Video Equipment Technicians (SOC: 27-4011), Broadcast Technicians (SOC: 27-4012), Multimedia Artists and Animators (SOC: 27-1014), Sound Engineering Technicians (SOC: 27-4014), Musical Instrument Repairers and Tuners (SOC: 49-9063).

Background Information: Commercial Music Occupations

Audio-Visual and Multimedia Collections Specialists (SOC: 25-9011)
Prepare, plan, and operate multimedia teaching aids for use in education. May record, catalogue, and file materials. Requires a Bachelor's or Higher.

Music Directors and Composers (SOC: 27-2041)
Conduct, direct, plan, and lead instrumental or vocal performances by musical groups, such as orchestras, bands, choirs, and glee clubs. Includes arrangers, composers, choral directors, and orchestrators. Requires a Bachelor's or Higher.

Musicians and Singers (SOC: 27-2042)
Play one or more musical instruments or sing. May perform on stage, for on-air broadcasting, or for sound or video recording. On-The-Job Training, No College Required.

Audio and Video Equipment Technicians (SOC: 27-4011)
Set up, or set up and operate audio and video equipment including microphones, sound speakers, video screens, projectors, video monitors, recording equipment, connecting wires and cables, sound and mixing boards, and related electronic equipment for concerts, sports events, meetings and conventions, presentations, and news conferences. May also set up and operate associated spotlights and other custom lighting systems. Requires a Postsecondary Non-Degree Award.

Broadcast Technicians (SOC: 27-4012)
Set up, operate, and maintain the electronic equipment used to transmit radio and television programs. Control audio equipment to regulate volume level and quality of sound during radio and television broadcasts. Operate transmitter to broadcast radio or television programs. Requires an Associate's Degree.

Multimedia Artists and Animators (SOC: 27-1014)
Create special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in products or creations, such as computer games, movies, music videos, and commercials. Requires a Bachelor's or Higher.

Sound Engineering Technicians (SOC: 27-4014)
Operate machines and equipment to record, synchronize, mix, or reproduce music, voices, or sound effects in sporting arenas, theater productions, recording studios, or movie and video productions. Requires a Postsecondary Non-Degree Award.

Musical Instrument Repairers and Tuners (SOC: 49-9063)
Repair percussion, stringed, reed, or wind instruments. May specialize in one area, such as piano tuning. On-The-Job Training, No College Required.

Music Industry Studies

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Audio Production	061410		● ◇	
Performance	100500		● ◇	

✦ *Locally Approved Certificate*　　● *State Approved Certificate*　　◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
25-9011	Audio-Visual and Multimedia Collections Specialists	131	138	7	5%	$13.27	$17.57	$26.35
27-1014	Multimedia Artists and Animators	261	280	19	7%	$9.18	$13.02	$18.13
27-2041	Music Directors and Composers	558	584	26	5%	$9.47	$20.82	$35.59
27-2042	Musicians and Singers	1,438	1,518	80	6%	$9.61	$20.06	$33.90
27-4011	Audio and Video Equipment Technicians	689	743	54	8%	$10.83	$16.29	$27.16
27-4012	Broadcast Technicians	97	65	(32)	(33%)	$13.76	$24.28	$30.54
27-4014	Sound Engineering Technicians	104	116	12	12%	$13.06	$18.13	$28.36
49-9063	Musical Instrument Repairers and Tuners	112	119	7	6%	$10.28	$13.47	$21.01
	Total	3,390	3,563	173	5%	$10.16	$18.55	$30.57

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.

Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
25-9011	Audio-Visual and Multimedia Collections Specialists	138	148	10	7%	3
27-1014	Multimedia Artists and Animators	280	286	6	2%	7
27-2041	Music Directors and Composers	584	622	38	7%	25
27-2042	Musicians and Singers	1,518	1,600	82	5%	63
27-4011	Audio and Video Equipment Technicians	743	793	50	7%	25
27-4012	Broadcast Technicians	65	60	(5)	(8%)	Insf. Data
27-4014	Sound Engineering Technicians	116	123	7	6%	4
49-9063	Musical Instrument Repairers and Tuners	119	122	3	3%	4
	Total	3,563	3,754	191	5%	133

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
27-4011	Audio and Video Equipment Technicians	25
27-4012	Broadcast Technicians	22
27-4014	Sound Engineering Technicians	20
27-2042	Musicians and Singers	18
27-1014	Multimedia Artists and Animators	17
27-2041	Music Directors and Composers	9
25-9011	Audio-Visual and Multimedia Collections Specialists	3
49-9063	Musical Instrument Repairers and Tuners	1
	Total	115

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
813110	Religious Organizations	929	1,003	74	8%
711510	Independent Artists, Writers, and Performers	676	689	13	2%
903611	Elementary and Secondary Schools (Local Government)	248	260	12	5%
903612	Colleges, Universities, and Professional Schools (Local Government)	83	91	8	10%
711130	Musical Groups and Artists	77	67	(10)	(13%)
611310	Colleges, Universities, and Professional Schools	60	77	17	28%
711310	Promoters of Performing Arts, Sports, and Similar Events with Facilities	57	74	17	30%
512110	Motion Picture and Video Production	51	56	5	10%
711410	Agents and Managers for Artists, Athletes, Entertainers, and Other Public Figures	52	55	3	6%
711320	Promoters of Performing Arts, Sports, and Similar Events without Facilities	47	50	3	6%
512240	Sound Recording Studios	47	50	3	6%
711110	Theater Companies and Dinner Theaters	36	34	(2)	(6%)

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	2	5	7	2
Riverside	15	22	37	12
RCCD Total	**17**	**27**	**44**	**14**
Chaffey	0	5	5	2
Mt San Jacinto	51	47	98	32
Other Community Colleges Total	**51**	**52**	**103**	**34**
Grand Total	**68**	**79**	**147**	**48**

Source: DataMart

Nursing

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP codes assigned to Nursing are 123010, 123020, and 123030.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP codes assigned to Nursing are 513801, 513901, and 513902.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Nursing are: Registered Nurses (SOC: 29-1141), Licensed Practical and Licensed Vocational Nurses (SOC: 29-2061), Home Health Aides (SOC: 31-1011), Nursing Assistants (SOC: 31-1014), Personal Care Aides (SOC: 39-9021).

Background Information: Nursing Occupations

Registered Nurses (SOC: 29-1141)
Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer nursing care to ill, injured, convalescent, or disabled patients. May advise patients on health maintenance and disease prevention or provide case management. Licensing or registration required. Requires a Bachelor's or Higher.

Licensed Vocational Nurses (SOC: 29-2061)
Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. May work under the supervision of a registered nurse. Licensing required. Requires a Postsecondary Non-Degree Award.

Home Health Aides (SOC: 31-1011)
Provide routine individualized healthcare such as changing bandages and dressing wounds, and applying topical medications to the elderly, convalescents, or persons with disabilities at the patient's home or in a care facility. Monitor or report changes in health status. May also provide personal care such as bathing, dressing, and grooming of patient. On-The-Job Training, No College Required.

Nursing Assistants (SOC: 31-1014)
Provide basic patient care under direction of nursing staff. Perform duties such as feed, bathe, dress, groom, or move patients, or change linens. May transfer or transport patients. Includes nursing care attendants, nursing aides, and nursing attendants. Requires a Postsecondary Non-Degree Award.

Personal Care Aides (SOC: 39-9021)
Assist the elderly, convalescents, or persons with disabilities with daily living activities at the person's home or in a care facility. Duties performed at a place of residence may include keeping house (making beds, doing laundry, washing dishes) and preparing meals. May provide assistance at non-residential care facilities. May advise families, the elderly, convalescents, and persons with disabilities regarding such things as nutrition, cleanliness, and household activities. On-The-Job Training, No College Required.

Nursing

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Critical Care Nurse	123010			✚
Nursing Assistant	123030			✚
Registered Nursing	123010			◇
Vocational Nursing	123020			● ◇

✚ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
29-1141	Registered Nurses	21,502	25,534	4,032	19%	$30.69	$42.31	$58.23
29-2061	Licensed Vocational Nurses	5,461	6,816	1,355	25%	$16.70	$22.63	$29.21
31-1011	Home Health Aides	2,576	5,110	2,534	98%	$8.85	$11.16	$20.76
31-1014	Nursing Assistants	7,861	10,019	2,158	27%	$9.71	$12.86	$18.47
39-9021	Personal Care Aides	9,305	16,317	7,012	75%	$8.80	$9.79	$11.91
	Total	46,704	63,796	17,092	37%	$18.75	$25.07	$34.45

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
29-1141	Registered Nurses	25,534	29,487	3,953	15%	1,462
29-2061	Licensed Vocational Nurses	6,816	7,758	942	14%	402
31-1011	Home Health Aides	5,110	7,552	2,442	48%	642
31-1014	Nursing Assistants	10,019	11,950	1,931	19%	640
39-9021	Personal Care Aides	16,317	23,325	7,008	43%	1,600
	Total	63,796	80,071	16,275	26%	4,746

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
29-1141	Registered Nurses	14,042
29-2061	Licensed Vocational Nurses	1,399
31-1014	Nursing Assistants	1,084
39-9021	Personal Care Aides	732
31-1011	Home Health Aides	222
	Total	17,479

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
624120	Services for the Elderly and Persons with Disabilities	19,909	29,528	9,619	48%
622110	General Medical and Surgical Hospitals	12,885	15,211	2,326	18%
623110	Nursing Care Facilities (Skilled Nursing Facilities)	6,280	7,287	1,007	16%
621610	Home Health Care Services	5,571	6,768	1,197	21%
621111	Offices of Physicians (except Mental Health Specialists)	3,219	3,873	654	20%
903622	Hospitals (Local Government)	2,599	2,753	154	6%
623312	Assisted Living Facilities for the Elderly	1,441	2,005	564	39%
903999	Local Government, Excluding Education and Hospitals	993	1,064	71	7%
623210	Residential Intellectual and Developmental Disability Facilities	954	922	(32)	(3%)
623311	Continuing Care Retirement Communities	791	1,124	333	42%
903611	Elementary and Secondary Schools (Local Government)	797	850	53	7%
902622	Hospitals (State Government)	689	755	66	10%
901199	Federal Government, Civilian, Excluding Postal Service	669	673	4	1%
621492	Kidney Dialysis Centers	415	531	116	28%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	-	-	-	-
Riverside	361	564	925	308
RCCD Total	**361**	**564**	**925**	**308**
Chaffey	144	240	384	128
Desert	54	201	255	85
Copper Mountain	33	108	141	47
Mt. San Jacinto	0	166	166	55
Palo Verde	102	0	102	34
San Bernardino	0	207	207	69
Victor Valley	228	228	456	152
Other Community Colleges Total	**561**	**1150**	**1711**	**570**
Grand Total	**922**	**1714**	**2636**	**878**

Source: Data Mart

There were 4,558 completions from other institutions in the region between 2011 -2014. They included:
Loma Linda University
West Coast University
Summit College
Four-D College
California Nurses Educational Institute
Concorde Career College

Paralegal Studies

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Paralegal Studies is 140200.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Paralegal Studies is 220302.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Paralegal Studies are: Paralegals and Legal Assistants (SOC: 23-2011), Court Reporters (SOC: 23-2091), Title Examiners, Abstractors, and Searchers (SOC: 23-2093), Court, Municipal, and License Clerks (SOC: 43-4031), Legal Secretaries (SOC: 43-6012).

Background Information: Paralegal Studies Occupations

Paralegals and Legal Assistants (SOC: 23-2011)
Assist lawyers by investigating facts, preparing legal documents, or researching legal precedent. Conduct research to support a legal proceeding, to formulate a defense, or to initiate legal action. Requires an Associate's Degree.

Court Reporters (SOC: 23-2091)
Use verbatim methods and equipment to capture, store, retrieve, and transcribe pretrial and trial proceedings or other information. Includes stenocaptioners who operate computerized stenographic captioning equipment to provide captions of live or prerecorded broadcasts for hearing-impaired viewers. Requires a Postsecondary Non-Degree Award.

Title Examiners, Abstractors, and Searchers (SOC: 23-2093)
Search real estate records, examine titles, or summarize pertinent legal or insurance documents or details for a variety of purposes. May compile lists of mortgages, contracts, and other instruments pertaining to titles by searching public and private records for law firms, real estate agencies, or title insurance companies. On-The-Job Training, No College Required.

Court, Municipal, and License Clerks (SOC: 43-4031)
Perform clerical duties for courts of law, municipalities, or governmental licensing agencies and bureaus. May prepare docket of cases to be called; secure information for judges and court; prepare draft agendas or bylaws for town or city council; answer official correspondence; keep

fiscal records and accounts; issue licenses or permits; and record data, administer tests, or collect fees. On-The-Job Training, No College Required.

Legal Secretaries (SOC: 43-6012)
Perform secretarial duties using legal terminology, procedures, and documents. Prepare legal papers and correspondence, such as summonses, complaints, motions, and subpoenas. May also assist with legal research. On-The-Job Training, No College Required.

Paralegal Studies

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Paralegal Studies	140200			◇

✚ Locally Approved Certificate   ● State Approved Certificate   ◇Associates Degree

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
23-2011	Paralegals and Legal Assistants	2,107	2,250	143	7%	$12.67	$22.93	$35.76
23-2091	Court Reporters	362	367	5	1%	$27.96	$33.57	$38.23
23-2093	Title Examiners, Abstractors, and Searchers	624	652	28	4%	$16.38	$23.68	$39.65
43-4031	Court, Municipal, and License Clerks	1,086	1,089	3	0%	$16.46	$20.81	$23.69
43-6012	Legal Secretaries	795	811	16	2%	$11.03	$16.93	$23.14
	Total	4,974	5,169	195	4%	$14.78	$22.41	$31.95

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
23-2011	Paralegals and Legal Assistants	2,250	2,414	164	7%	84
23-2091	Court Reporters	367	366	(1)	(0%)	9
23-2093	Title Examiners, Abstractors, and Searchers	652	677	25	4%	21
43-4031	Court, Municipal, and License Clerks	1,089	1,159	70	6%	21
43-6012	Legal Secretaries	811	851	40	5%	18
	Total	5,169	5,467	298	6%	153

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
23-2011	Paralegals and Legal Assistants	63
43-6012	Legal Secretaries	45
23-2093	Title Examiners, Abstractors, and Searchers	39
43-4031	Court, Municipal, and License Clerks	29
23-2091	Court Reporters	0
	Total	176

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
541110	Offices of Lawyers	1,999	2,131	132	7%
903999	Local Government, Excluding Education and Hospitals	1,546	1,637	91	6%
902999	State Government, Excluding Education and Hospitals	317	328	11	3%
901199	Federal Government, Civilian, Excluding Postal Service	152	153	1	1%
524126	Direct Property and Casualty Insurance Carriers	100	104	4	4%
524127	Direct Title Insurance Carriers	87	92	5	6%
561410	Document Preparation Services	67	66	(1)	(1%)
551114	Corporate, Subsidiary, and Regional Managing Offices	57	61	4	7%
531311	Residential Property Managers	48	58	10	21%
541191	Title Abstract and Settlement Offices	50	31	(19)	(38%)
561492	Court Reporting and Stenotype Services	32	31	(1)	(3%)

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	-	-	-	
Riverside	0	37	37	12
RCCD Total	**0**	**37**	**37**	**12**
Chaffey	49	0	49	16
Mt. San Jacinto	27	23	50	17
San Bernardino	0	2	2	1
Victor Valley	32	0	32	11
Other Community Colleges Total	**108**	**25**	**133**	**45**
Grand Total	**108**	**62**	**170**	**57**

Source: Data Mart

There were 355 completions from other institutions in the region between 2011-2014. They included:
Everest College
ITT Tech- San Bernardino
Platt College
Summit College
Westwood College
Sage College

Photography

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Photography is 101200.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Photography is 100201.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated Photography are Photographers (SOC: 27-4021), Camera and Photographic Equipment Repairers (SOC: 49-9061), Photographic Process Workers and Processing Machine Operators (SOC: 51-9151).

Background Information: Photography Occupations

Photographers (SOC: 27-4021)
Photograph people, landscapes, merchandise, or other subjects, using digital or film cameras and equipment. May develop negatives or use computer software to produce finished images and prints. Includes scientific photographers, aerial photographers, and photojournalists. On-The-Job Training, No College Required.

Camera and Photographic Equipment Repairers (SOC: 49-9061)
Repair and adjust cameras and photographic equipment, including commercial video and motion picture camera equipment. Requires an Associate's Degree.

Photographic Process Workers and Processing Machine Operators (SOC: 51-9151)
Perform work involved in developing and processing photographic images from film or digital media. May perform precision tasks such as editing photographic negatives and prints. On-The-Job Training, No College Required.

Photography

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Photography	101200			● ◇

✚ Locally Approved Certificate ● State Approved Certificate ◇Associates Degree

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
27-4021	Photographers	1,215	1,311	96	8%	$9.32	$12.10	$30.40
49-9061	Camera and Photographic Equipment Repairers	22	24	2	9%	$12.25	$19.63	$29.47
51-9151	Photographic Process Workers and Processing Machine Operators	219	213	(6)	(3%)	$10.46	$14.82	$20.60
	Total	1,457	1,548	91	6%	$9.53	$12.60	$29.01

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
27-4021	Photographers	1,311	1,364	53	4%	51
49-9061	Camera and Photographic Equipment Repairers	24	26	2	8%	Insf. Data
51-9151	Photographic Process Workers and Processing Machine Operators	213	194	(19)	(9%)	4
	Total	1,674	1,721	47	3%	56

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
27-4021	Photographers	150
51-9151	Photographic Process Workers and Processing Machine Operators	53
49-9061	Camera and Photographic Equipment Repairers	1
	Total	204

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
541921	Photography Studios, Portrait	426	400	(26)	(6%)
711510	Independent Artists, Writers, and Performers	98	98	0	0%
541922	Commercial Photography	44	52	8	18%
446110	Pharmacies and Drug Stores	37	33	(4)	(11%)
452112	Discount Department Stores	21	19	(2)	(10%)
452910	Warehouse Clubs and Supercenters	20	23	3	15%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	-	-	-	-
Riverside	25	14	39	13
RCCD Total	**25**	**14**	**39**	**13**
Chaffey	15	26	41	14
Other Community Colleges Total	**15**	**26**	**41**	**14**
Grand Total	**40**	**40**	**80**	**27**

Source: Data Mart

Retail Management/WAFC

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Retail Management/WAFC is 050650.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Retail Management/WAFC is 520212.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Retail Management/WAFC are: First-Line Supervisors of Retail Sales Workers (SOC: 41-1011), General and Operations Managers (SOC: 11-1021).

Background Information: Retail Management/WAFC Occupations

General and Operations Managers (SOC: 11-1021)
Plan, direct, or coordinate the operations of public or private sector organizations. Duties and responsibilities include formulating policies, managing daily operations, and planning the use of materials and human resources, but are too diverse and general in nature to be classified in any one functional area of management or administration, such as personnel, purchasing, or administrative services. Requires a Bachelor's or Higher.

First-Line Supervisors of Retail Sales Workers (SOC: 41-1011)
Directly supervise and coordinate activities of retail sales workers in an establishment or department. Duties may include management functions, such as purchasing, budgeting, accounting, and personnel work, in addition to supervisory duties. On-The-Job Training, No College Required.

Retail Management/WAFC

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Retail Management/WAFC	050650		● ◇	● ◇

✦ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
11-1021	General and Operations Managers	17,200	20,659	3,459	20%	$22.16	$41.97	$89.04
41-1011	First-Line Supervisors of Retail Sales Workers	16,760	17,960	1,200	7%	$11.61	$16.69	$27.04
	Total	33,960	38,620	4,660	14%	$17.21	$30.09	$59.91

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
11-1021	General and Operations Managers	20,659	22,565	1,906	9%	940
41-1011	First-Line Supervisors of Retail Sales Workers	17,960	18,926	966	5%	679
	Total	38,620	41,491	2,871	7%	1,620

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
41-1011	First-Line Supervisors of Retail Sales Workers	5,142
11-1021	General and Operations Managers	1,252
	Total	6,394

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
445110	Supermarkets and Other Grocery (except Convenience) Stores	1,983	2,147	164	8%
452910	Warehouse Clubs and Supercenters	1,188	1,560	372	31%
444110	Home Centers	1,061	1,099	38	4%
452112	Discount Department Stores	829	869	40	5%
441110	New Car Dealers	750	834	84	11%
448140	Family Clothing Stores	877	873	(4)	(0%)
447110	Gasoline Stations with Convenience Stores	658	720	62	9%
446110	Pharmacies and Drug Stores	587	623	36	6%
448210	Shoe Stores	570	572	2	0%
441310	Automotive Parts and Accessories Stores	506	501	(5)	(1%)
493110	General Warehousing and Storage	426	616	190	45%
443142	Electronics Stores	479	464	(15)	(3%)
448120	Women's Clothing Stores	513	583	70	14%
453310	Used Merchandise Stores	395	486	91	23%
451110	Sporting Goods Stores	406	468	62	15%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	6	0	6	2
Riverside	4	1	5	2
RCDD Total	**10**	**1**	**11**	**4**
Chaffey	1	2	3	1
Desert	6	0	6	2
San Bernardino	12	0	12	4
Other Total	**19**	**2**	**21**	**7**
Grand Total	**29**	**3**	**32**	**11**

Source: Data Mart

Sign Language Interpreting

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Sign Language Interpreting is 085010.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Sign Language Interpreting is 161603.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Sign Language Interpreting is: Interpreters and Translators (SOC: 27-3091), Speech-Language Pathologists (SOC: 29-1127).

Background Information: Sign Language Interpreting Occupations

Interpreters and Translators (SOC: 27-3091)
Interpret oral or sign language, or translate written text from one language into another. Requires a Bachelor's or Higher.

Speech-Language Pathologists (SOC: 29-1127)
Assess and treat persons with speech, language, voice, and fluency disorders. May select alternative communication systems and teach their use. May perform research related to speech and language problems. Requires a Bachelor's or Higher.

Sign Language Interpreting

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Sign Language Interpreting	085010			● ◇

✦ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
27-3091	Interpreters and Translators	646	797	151	23%	$12.15	$17.97	$33.22
29-1127	Speech-Language Pathologists	711	869	158	22%	$21.88	$37.59	$50.03
	Total	1,357	1,666	309	23%	$17.13	$28.01	$41.83

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
27-3091	Interpreters and Translators	797	926	129	16%	40
29-1127	Speech-Language Pathologists	869	1,009	140	16%	52
	Total	1,666	1,935	269	16%	92

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
29-1127	Speech-Language Pathologists	2,257
27-3091	Interpreters and Translators	208
	Total	2,465

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
903611	Elementary and Secondary Schools (Local Government)	585	632	47	8%
624120	Services for the Elderly and Persons with Disabilities	118	164	46	39%
621340	Offices of Physical, Occupational and Speech Therapists, and Audiologists	104	133	29	28%
622110	General Medical and Surgical Hospitals	89	112	23	26%
903999	Local Government, Excluding Education and Hospitals	55	63	8	15%
621610	Home Health Care Services	37	45	8	22%
903612	Colleges, Universities, and Professional Schools (Local Government)	30	36	6	20%
621111	Offices of Physicians (except Mental Health Specialists)	28	33	5	18%
621330	Offices of Mental Health Practitioners (except Physicians)	24	28	4	17%
623110	Nursing Care Facilities (Skilled Nursing Facilities)	22	27	5	23%
611110	Elementary and Secondary Schools	22	24	2	9%
541930	Translation and Interpretation Services	21	27	6	29%
903622	Hospitals (Local Government)	19	22	3	16%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	-	-	-	-
Riverside	35	17	52	17
RCDD Total	35	17	52	17
Other Community Colleges Total	-	-	-	-
Grand Total	35	17	52	17

Source: Data Mart

Supply Chain Technology

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Supply Chain Technology is 095600.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Supply Chain Technology is 150613.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Supply Industrial Engineering Technicians (SOC: 17-3026), Occupational Health and Safety Specialists (SOC: 29-9011), Computer-Controlled Machine Tool Operators, Metal and Plastic (SOC: 51-4011), Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (SOC: 51-4012), Forging Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4022), Rolling Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4023), Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4031), Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4032), Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4033), Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4034), Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4035), Machinists (SOC: 51-4041), Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4081), Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4191), Layout Workers, Metal and Plastic (SOC: 51-4192), Inspectors, Testers, Sorters, Samplers, and Weighers (SOC: 51-9061)

Background Information: Supply Chain Technology Occupations

Industrial Engineering Technicians (SOC: 17-3026)
Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. May perform time and motion studies on worker operations in a variety of industries for purposes such as establishing standard production rates or improving efficiency. Requires an Associate's Degree.

Occupational Health and Safety Specialists (SOC: 29-9011)
Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors. May conduct inspections and enforce adherence to laws and regulations governing the health and safety of individuals. May be employed in the public or private sector. Includes environmental protection officers. Requires a Bachelor's or Higher.

Computer-Controlled Machine Tool Operators, Metal and Plastic (SOC: 51-4011)
Operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces. On-The-Job Training, No College Required.

Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (SOC: 51-4012)
Develop programs to control machining or processing of metal or plastic parts by automatic machine tools, equipment, or systems. On-The-Job Training, No College Required.
Forging Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4022)
Set up, operate, or tend forging machines to taper, shape, or form metal or plastic parts. On-The-Job Training, No College Required.

Rolling Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4023)
Set up, operate, or tend machines to roll steel or plastic forming bends, beads, knurls, rolls, or plate or to flatten, temper, or reduce gauge of material. On-The-Job Training, No College Required.

Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4031)
Set up, operate, or tend machines to saw, cut, shear, slit, punch, crimp, notch, bend, or straighten metal or plastic material. On-The-Job Training, No College Required.

Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4032)
Set up, operate, or tend drilling machines to drill, bore, ream, mill, or countersink metal or plastic work pieces. On-The-Job Training, No College Required.

Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4033)
Set up, operate, or tend grinding and related tools that remove excess material or burrs from surfaces, sharpen edges or corners, or buff, hone, or polish metal or plastic work pieces. On-The-Job Training, No College Required.

Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4034)
Set up, operate, or tend lathe and turning machines to turn, bore, thread, form, or face metal or plastic materials, such as wire, rod, or bar stock. On-The-Job Training, No College Required.

Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4035)
Set up, operate, or tend milling or planing machines to mill, plane, shape, groove, or profile metal or plastic work pieces. On-The-Job Training, No College Required.

Machinists (SOC: 51-4041)
Set up and operate a variety of machine tools to produce precision parts and instruments. Includes precision instrument makers who fabricate, modify, or repair mechanical instruments. May also fabricate and modify parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, mathematics, metal properties, layout, and machining procedures. On-The-Job Training, No College Required.

Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4081)
Set up, operate, or tend more than one type of cutting or forming machine tool or robot. On-The-Job Training, No College Required.

Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (SOC: 51-4191)
Set up, operate, or tend heating equipment, such as heat-treating furnaces, flame-hardening machines, induction machines, soaking pits, or vacuum equipment to temper, harden, anneal, or heat-treat metal or plastic objects. On-The-Job Training, No College Required.

Layout Workers, Metal and Plastic (SOC: 51-4192)
Lay out reference points and dimensions on metal or plastic stock or workpieces, such as sheets, plates, tubes, structural shapes, castings, or machine parts, for further processing. Includes shipfitters. On-The-Job Training, No College Required.

Inspectors, Testers, Sorters, Samplers, and Weighers (SOC: 51-9061)
Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments and complex test equipment. On-The-Job Training, No College Required.

Supply Chain Technology

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Supply Chain Technology	095600		● ◇	

✚ *Locally Approved Certificate*   ● *State Approved Certificate*   ◇*Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
17-3026	Industrial Engineering Technicians	333	349	16	5%	$17.17	$23.40	$35.74
29-9011	Occupational Health and Safety Specialists	378	413	35	9%	$23.14	$35.75	$44.60
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	694	917	223	32%	$10.81	$16.74	$25.94
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	154	213	59	38%	$15.47	$25.71	$32.45
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	257	330	73	28%	$11.29	$15.39	$23.39
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	337	383	46	14%	$11.10	$14.69	$22.78
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1,575	1,772	197	13%	$11.27	$15.16	$23.15
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	179	219	40	22%	$9.65	$12.99	$20.81
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	633	694	61	10%	$9.25	$13.53	$22.04
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	367	456	89	24%	$10.58	$16.82	$25.61
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	363	436	73	20%	$10.41	$15.77	$23.35
51-4041	Machinists	3,042	3,944	902	30%	$10.17	$16.12	$27.27
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	372	399	27	7%	$10.48	$15.21	$21.94
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	87	93	6	7%	$11.02	$15.82	$23.19
51-4192	Layout Workers, Metal and Plastic	47	52	5	11%	$15.03	$20.50	$31.67
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	3,666	4,282	616	17%	$10.60	$16.26	$27.94
	Total	12,484	14,952	2,468	20%	$11.11	$16.71	$26.78

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
17-3026	Industrial Engineering Technicians	349	344	(5)	(1%)	10
29-9011	Occupational Health and Safety Specialists	413	447	34	8%	16
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	917	1,030	113	12%	53
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	213	236	23	11%	12
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	330	307	(23)	(7%)	8
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	383	366	(17)	(4%)	10
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1,772	1,634	(138)	(8%)	24
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	219	205	(14)	(6%)	4
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	694	619	(75)	(11%)	28
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	456	433	(23)	(5%)	11
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	436	401	(35)	(8%)	7
51-4041	Machinists	3,944	4,190	246	6%	171
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	399	417	18	5%	12
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	93	88	(5)	(5%)	Insf. Data
51-4192	Layout Workers, Metal and Plastic	52	46	(6)	(12%)	Insf. Data
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	4,282	4,465	183	4%	148
	Total	14,952	15,227	275	2%	515

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	496
29-9011	Occupational Health and Safety Specialists	180
51-4041	Machinists	128
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	75
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	69
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	53
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	31
17-3026	Industrial Engineering Technicians	5
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	4

SOC Code	Occupation	2015 Annual Job Postings
51-4192	Layout Workers, Metal and Plastic	4
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	3
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)	3
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	2
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	2
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	1
	Total	1,056

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
332710	Machine Shops	1,486	1,564	78	5%
331110	Iron and Steel Mills and Ferroalloy Manufacturing	375	342	(33)	(9%)
493110	General Warehousing and Storage	271	402	131	48%
332111	Iron and Steel Forging	313	370	57	18%
332322	Sheet Metal Work Manufacturing	261	301	40	15%
332722	Bolt, Nut, Screw, Rivet, and Washer Manufacturing	248	323	75	30%
332114	Custom Roll Forming	257	252	(5)	(2%)
332721	Precision Turned Product Manufacturing	245	296	51	21%
333511	Industrial Mold Manufacturing	230	232	2	1%
326160	Plastics Bottle Manufacturing	219	243	24	11%
339112	Surgical and Medical Instrument Manufacturing	215	130	(85)	(40%)
332312	Fabricated Structural Metal Manufacturing	179	194	15	8%
332321	Metal Window and Door Manufacturing	163	136	(27)	(17%)
332912	Fluid Power Valve and Hose Fitting Manufacturing	173	191	18	10%
333517	Machine Tool Manufacturing	139	177	38	27%

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	8	3	11	4
Riverside	-	-	-	-
RCCD Total	8	3	11	4
San Bernardino	6	2	8	3
Other Community Colleges Total	6	2	8	3
Grand Total	14	5	19	7

Source: Data Mart

Welding Technology

Data Sources and Calculations

Educational Program Data

The Taxonomy of Programs (TOP) is a standardized system used at the state level to classify programs and courses that are intended to achieve the same outcome at different colleges throughout the state. The TOP code assigned to Welding Technology is 095650.

The Classification of Instructional Programs (CIP) is a standardized coding system used at the federal level to facilitate accurate tracking, assessment, and reporting of fields of study and program completion at educational institutions throughout the country. The CIP code assigned to Welding Technology/Welder is 480508.

All educational program data in this report are based on these TOP and CIP codes.

Occupational Data

The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories. The SOC codes and titles associated with Welding Technology are: Sheet Metal Workers (SOC: 47-2211), Structural Metal Fabricators and Fitters (SOC: 51-2041), Welders, Cutters, Solderers, and Brazers (SOC: 51-4121), Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders (SOC: 51-4122).

Background Information: Welding Technology Occupations

Sheet Metal Workers (SOC: 47-2211)
Fabricate, assemble, install, and repair sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings. Work may involve any of the following: setting up and operating fabricating machines to cut, bend, and straighten sheet metal; shaping metal over anvils, blocks, or forms using hammer; operating soldering and welding equipment to join sheet metal parts; or inspecting, assembling, and smoothing seams and joints of burred surfaces. Includes sheet metal duct installers who install prefabricated sheet metal ducts used for heating, air conditioning, or other purposes. On-The-Job Training, No College Required.

Structural Metal Fabricators and Fitters (SOC: 51-2041)
Fabricate, position, align, and fit parts of structural metal products. On-The-Job Training, No College Required.

Welders, Cutters, Solderers, and Brazers (SOC: 51-4121)
Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products. On-The-Job Training, No College Required.

Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders (SOC: 51-4122)

Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Includes workers who operate laser cutters or laser-beam machines. On-The-Job Training, No College Required.

Welding Technology

Certificates and Degrees	TOP Code	Moreno Valley	Norco	Riverside
Welding Technology	095650			● ◇
Stick Welding (SMAW)	095650			✚
TIG Welding (GTAW)	095650			✚
Wire Welding (FCAW, GMAW)	095650			✚

✚ *Locally Approved Certificate*　　● *State Approved Certificate*　　◇ *Associates Degree*

Historical Occupation Data

SOC	Occupation	2010 Jobs	2015 Jobs	5 year Growth	% Growth	Entry Wage	Median Wage	Experienced Wage
47-2211	Sheet Metal Workers	1,000	1,314	314	31%	$10.62	$19.72	$36.91
51-2041	Structural Metal Fabricators and Fitters	562	705	143	25%	$11.05	$16.04	$21.69
51-4121	Welders, Cutters, Solderers, and Brazers	3,053	3,674	621	20%	$11.72	$16.81	$23.12
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	251	270	19	8%	$10.31	$14.54	$21.67
	Total	4,866	5,963	1,097	23%	$11.34	$17.24	$25.86

Note: Entry Wage represents the 10th percentile, Median Wage represents the 50th percentile, and Experienced Wage represents the 90th percentile.
Source: EMSI Q2 2016 Data Set, June 2016

Projected Occupation Data

SOC	Description	2015 Jobs	2020 Jobs	5 Year Growth	% Growth	Annual Openings
47-2211	Sheet Metal Workers	1,314	1,420	106	8%	58
51-2041	Structural Metal Fabricators and Fitters	705	699	(6)	(1%)	19
51-4121	Welders, Cutters, Solderers, and Brazers	3,674	3,628	(46)	(1%)	129
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	270	254	(16)	(6%)	9
	Total	5,963	6,001	38	1%	215

Source: EMSI Q2 2016 Data Set, June 2016

2015 Annual Job Postings for these Occupations

SOC Code	Occupation	2015 Annual Job Postings
51-4121	Welders, Cutters, Solderers, and Brazers	228
47-2211	Sheet Metal Workers	35
51-2041	Structural Metal Fabricators and Fitters	12
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	2
	Total	277

Source: Labor Insight Jobs (Burning Glass Technologies), Top Detailed Occupations, June 2016

Top Industries Employing these Occupations

NAICS	Industry	Jobs in Industry (2015)	Jobs in Industry (2020)	5 Year Growth	% Growth
238220	Plumbing, Heating, and Air-Conditioning Contractors	564	645	81	14%
238130	Framing Contractors	425	342	(83)	(20%)
332322	Sheet Metal Work Manufacturing	402	483	81	20%
332312	Fabricated Structural Metal Manufacturing	275	311	36	13%
332321	Metal Window and Door Manufacturing	248	218	(30)	(12%)
238120	Structural Steel and Precast Concrete Contractors	158	170	12	8%
336211	Motor Vehicle Body Manufacturing	107	123	16	15%
332710	Machine Shops	128	131	3	2%
238160	Roofing Contractors	98	125	27	28%
482110	Rail transportation	95	91	(4)	(4%)
336214	Travel Trailer and Camper Manufacturing	101	14	(87)	(86%)
237110	Water and Sewer Line and Related Structures Construction	86	89	3	3%
236220	Commercial and Institutional Building Construction	77	81	4	5%
332323	Ornamental and Architectural Metal Work Manufacturing	72	55	(17)	(24%)
333415	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	65	55	(10)	(15%)

Source: EMSI Q2 2016 Data Set, June 2016

Community College Completions 2012-2015

College	Certificate	Associate Degree	Total Completions	Average Completions
Moreno Valley	-	-	-	-
Norco College	-	-	-	-
Riverside	61	4	65	22
RCCD Total	**61**	**4**	**65**	**22**
Barstow	5	8	13	4
Palo Verde	41	3	44	15
San Bernardino	11	2	13	4
Victor Valley	19	8	27	9
Other Community Colleges Total	**76**	**21**	**97**	**32**
Grand Total	**137**	**25**	**162**	**54**

Source: IPEDS

There were 565 completions from other institutions in the region between 2011-2014. They included:
CET-San Bernardino
Summit College
Riverside County Office of Education
Fab School