

Moreno Valley College

TOP Code 125100: Paramedic

Regional Labor Market Information and Analysis

August 2022

I. Introduction, Definitions, and Data Sources

This report summarizes program completion and employment data to analyze the regional labor market for TOP Code 125100: Paramedic. It draws from the California Community Colleges Chancellor's Office (CCCCO) Curriculum Inventory, Datamart, and Perkins Core Indicator Reports; the U.S. Bureau of Labor Statistics; the Centers of Excellence for Labor Market Research (COE); the CA Employment Development Department; and O*NET OnLine.

Definitions:

Labor Market Supply and Demand

TOP Code

The California Community Colleges Taxonomy of Programs (TOP) Code is a numeric system used by the state to collect and report information on programs and courses with similar outcomes across colleges. This report refers to TOP Code Manual 6th Edition (2013).

Source: California Community Colleges Curriculum and Instruction Unit

SOC Code

The Standard Occupational Classification (SOC) system is used by federal agencies to classify workers into occupational categories to collect, calculate, or disseminate data. All workers are classified into one of 867 detailed occupations according to their occupational definition. Detailed occupations with similar job duties, and in certain instances skills, education, and/or training, are grouped together. The SOC Code system provides a uniform framework to classify positions based on the work performed regardless of the employer or industry.

Source: U.S. Bureau of Labor Statistics, CA Employment Development Department

Occupational Employment Projections

Occupational employment projections estimate changes in occupational employment over time as a result of industry growth, technological changes, and other factors. Projection data are estimates and assume the continuation of historical trends, while acknowledging that a variety of events can occur during the projection period that can impact employment levels.

Source: CA Employment Development Department

Short-term projections:

Short-term (2-year) projections are based on quarterly average employment levels by industry for base and target quarters. Averages may reflect seasonality in some occupations.

Source: CA Employment Development Department

Long-term projections:

Long-term (10-year) projections are based on annual average employment levels by industry for base and target years. When using long-term projections data, it is important to note the annual average employment levels for seasonal occupations in agriculture, construction, retail sales, or recreation may vary significantly from seasonal peak periods.

Source: CA Employment Development Department

Total Job Openings

Total job openings represents the sum of growth (new jobs) and replacement needs. It is the sum of exits (projected number of workers leaving an occupation and exiting the labor force entirely), transfers (projected number of workers permanently leaving an occupation and transferring to a different occupation), and numeric change (projected number of job gains or losses in an occupation for the projection period).

Source: CA Employment Development Department

Median Annual Wage

Median wage estimates are the mid-point of the wage distribution. 50% of workers in an occupation earn wages below and 50% earn wages above the median wage.

Source: CA Employment Development Department

Student Progress Measures**Perkins Core Indicator 2: Completions**

This indicator measures student attainment of an industry-recognized credential, a certificate, or a degree. It is the percentage of leaver and completer concentrators who: 1) receive a degree, certificate, or equivalent; or 2) complete a transfer program and are classified as Transfer Ready.

Source: CCCCCO Perkins Core Indicator Reports

Perkins Core Indicator 3: Persistence

This indicator measures student retention in postsecondary education or transfer to a baccalaureate degree program. It is the percentage of student concentrators who: 1) persisted in education at the community college level, or 2) transferred to a four-year institution. It excludes Life-Long-Learners and those who left with a certificate or degree and did not transfer.

Source: CCCCCO Perkins Core Indicator Reports

Perkins Core Indicator 4: Employment

This indicator measures student placement in military service, apprenticeship programs, or placement or retention in employment, including placement in high skill, high wage, or high demand occupations or professions. It is the percentage of Career Technical Education (CTE) program leavers and completers who did not transfer to a two or four-year institution and who, during one of the four quarters following the cohort year, were in an apprenticeship program, Unemployment Insurance covered employment, the federal government, or the military.

Source: CCCCCO Perkins Core Indicator Reports

Data Sources:**TOP-SOC Codes**

Moreno Valley College active credit CTE program TOP Codes were obtained from the Chancellor's Office Curriculum Inventory System. The COE TOP-CIP-SOC crosswalk was used to match TOP Codes to SOC Codes.

Total Job Openings and Median Annual Wage

Total job openings and median annual wage projection data were obtained from the CA Employment Development Department.

Educational Attainment and Requirements

Educational attainment and requirement data were obtained from the U.S. Bureau of Labor Statistics and the COE TOP-CIP-SOC Crosswalk.

II. Degrees and Certificates

At Moreno Valley College, the following active credit CTE programs are coded as TOP Code 125100 - Paramedic:

Program Title	Program Award
Paramedic	A.S. Degree
Paramedic	Certificate of Achievement requiring 30 to less than 60 semester units or 45 to less than 90 quarter units

Source: The Chancellor's Office Curriculum Inventory System

MVC Student Achievement

Credit Program Awards (2020-2021) - TOP Code 125100

Total MVC Credit Program Awards	29
Associate of Science (A.S.) degree	9
Certificate requiring 30 to < 60 semester units	20

Source: CCCCCO Datamart

Perkins Core Indicators (2020-2021) - TOP Code 125100

Outcome	MVC	Statewide	Performance Goal
Completions	97.7%	95.8%	84.6%
Persistence	81.0%	88.0%	87.4%
Employment	97.4%	87.1%	73.2%

Source: CCCCCO Perkins Core Indicator Reports

III. Projected Job Outlook

Based on the TOP-CIP-SOC crosswalk provided by the Centers of Excellence, SOC Code 29-2041: Emergency Medical Technicians and Paramedics, was examined to complete the job outlook for TOP Code 125100.

Short-Term Projections:

The table below shows short-term (2020-2022) occupational employment projections for the state of California in SOC Code 29-2041. Note, short-term projections are not available below the state level.

California Short-Term Job Outlook - SOC Code 29-2041

SOC Code	Description	Total Job Openings	Median Annual Wage
29-2041*	Emergency Medical Technicians and Paramedics	4,590	Data not available

Source: CA Employment Development Department

Long-Term Projections:

The table below shows Inland Empire long-term (2018-2028) projected job openings and median wages, educational requirements, and educational attainment of individuals within this occupation.

Inland Empire Long-Term Job Outlook - SOC Code 29-2041

SOC Code	Description	Education	% of Individuals with Some College, No Degree	% of Individuals with an Associate's Degree	% of Individuals with a Bachelor's Degree	Inland Empire Total Job Openings	Median Annual Wage
29-2041*	Emergency Medical Technicians and Paramedics	Requires a Postsecondary Non-Degree Award	Data Not Available	Data Not Available	Data Not Available	1,921	\$38,174

Sources: CA Employment Development Department, COE Crosswalk

*SOC Codes were updated in 2018. According to O*NET OnLine, SOC Code 29-2041 has been replaced by SOC Codes 29-2042: Emergency Medical Technicians and 29-2043: Paramedics. However, CA Employment Development Department projection data and the COE Crosswalk use 2010 SOC Codes. Therefore, job openings, median annual wage, and educational requirements are reported for the previous SOC Code 29-2041. While the Bureau of Labor Statistics reports educational attainment on updated SOC Codes, it is not available for these new SOC Codes.

It is projected that between 2018-2028 there will be 1, 921 Inland Empire job openings for SOC Code 29-2041: Emergency Medical Technicians and Paramedics. According to the COE, this occupation typically requires a Postsecondary Non-Degree Award. Using the Insight Center Family Needs Calculator, the median wage of \$38,174 exceeds the self-sufficiency standard for the annual wage of a single adult in Riverside (\$29,421) and San Bernardino (\$28,602) counties.

IV. Regional Completers

The table below shows the number of degrees and credit certificates awarded in TOP Code 125100 at Inland Empire community colleges. Included in this analysis are: Barstow Community College, Chaffey College, College of the Desert, Copper Mountain College, Crafton Hills College, Moreno Valley College, Mt. San Jacinto College, Norco College, Palo Verde College, Riverside City College, San Bernardino Valley College, and Victor Valley College.

Of Inland Empire community colleges, Crafton Hills College, Moreno Valley College, and Victor Valley College had program awards in this TOP Code in 2020-2021.

Inland Empire Community College Credit Program Awards 2020-2021 - TOP Code 125100

Total Credit Program Awards	299
Associate of Science (A.S.) degree	24
Certificate requiring 30 to < 60 semester units	75
Certificate requiring 8 to < 16 semester units	200

Source: CCCCCO Datamart

V. Net Labor Demand

To estimate net annual labor demand, we consider the estimated number of job openings, minus the annual number of program completers. The estimated total annual job openings in the table below is calculated by dividing the total for the 10-year projection period by 10. The projected Inland Empire job openings between 2018 and 2028 for SOC Code 29-2041 is 1,921. Dividing that number by 10 produces an annual estimate of 192 openings. With 299 program completers for the year 2020-2021, there is an estimated net annual labor demand of -107.

Net Annual Labor Demand - Inland Empire Community Colleges - TOP Code 125100

Total Estimated Annual Job Openings	192
Program Completers (2020-2021)	299
Net Annual Labor Demand	-107

In evaluating net labor demand, it is important to note that SOC Codes may match multiple TOP Codes. The table below shows the TOP Codes matching SOC Code 29-2041.

SOC Code	TOP Code
29-2041: Emergency Medical Technicians and Paramedics	125000: Emergency Medical Services 125100: Paramedic

Source: COE Crosswalk