



Paramedic (TOP 1251.00)

September 2023

Prepared by the South Central Coast Center of Excellence for
Labor Market Research

Program Recommendation

This report was compiled by the South Central Coast¹ Center of Excellence to provide regional labor market data for the program recommendation – Paramedic. This report can help determine whether there is demand in the local labor market that is not being met by the supply from programs of study (CCC and non-CCC) that align with this occupation group.

Key Findings

- In the South Central Coast region, **the number of jobs for Paramedics are expected to increase.**
- Paramedic is anticipated to experience a **low risk of automation.**
- In 2021 there were 553 regional completions in programs related to the occupation identified as aligned with Paramedic and 85 openings, indicating an **oversupply.**
- Typical entry-level education is a **postsecondary nondegree award** for Paramedics.
- Completers of Paramedic programs from the 2019-2020 academic year in the South Central Coast region had a **median annual wage upon completion of \$39,032.**
- 81% of students are **employed within a year** after completing a program.
- 58% of students **attained a living wage** within a year of completion.
- Completers experienced an average of +47% **change in earnings after exiting.**
- 62% of students were **part-time**, 30% **skill builders**, 28% **first-generation**, and 69% **economically disadvantaged.**

¹ The South Central Coast Region consists of San Luis Obispo County, Santa Barbara County, Ventura County, and the following cities from North Los Angeles County: Canyon Country, Castaic, Lake Hughes, Lancaster, Littlerock, Llano, Newhall, Palmdale, Pearblossom, Santa Clarita, Stevenson Ranch, and Valencia.

Occupation Codes and Descriptions

There is one occupation in the standard occupational classification (SOC) system that was identified as related to Paramedic for this analysis. The occupation title and description, as well as reported job titles, are included in Exhibit 1.

Exhibit 1 – Occupation, Description, and Sample Job Titles

SOC Code	Title	Description	Sample of Reported Job Titles
29-2043	Paramedics	Administer basic or advanced emergency medical care and assess injuries and illnesses. May administer medication intravenously, use equipment such as EKGs, or administer advanced life support to sick or injured individuals.	First Responder, Flight Paramedic

Source: O*NET Online

Current and Future Employment

In the South Central Coast region, the number of jobs for Paramedics are expected to increase.

Exhibit 2 – Five-Year Projections for Paramedic in the South Central Coast Region

SOC	Occupation	2022 Jobs	2027 Jobs	2022-2027 Change	2022-2027 % Change
29-2043	Paramedics	535	653	118	22%

Source: Lightcast™ Analyst 2022

Earnings

Exhibit 3 contains hourly wages and annual average earnings for this occupation. Entry-level hourly earnings are represented by the 25th percentile of wages, median hourly earnings are represented by the 50th percentile of wages, and experienced hourly earnings are represented by the 75th percentile of wages, demonstrating various levels of employment.

Exhibit 3 – Earnings for Paramedic in the South Central Coast Region

SOC	Occupation	Entry-Level Hourly Earnings	Median Hourly Earnings	Experienced Hourly Earnings
29-2043	Paramedics	\$22.82	\$23.86	\$29.35

Source: Lightcast™ Analyst 2022

Exhibit 3b – Earnings for Paramedic in the South Central Coast Region



Source: Family Needs Calculator (Living wage is based on Single Adult households with no children);
Lightcast™ Analyst 2022

Employer Job Postings

In this research brief, real-time labor market information is used to provide a more nuanced view of the current job market, as it captures job advertisements for the occupation relevant to the field of study. Employer job postings are consulted to understand who is looking for paramedics, and what they are looking for in potential candidates. To identify job postings related to Paramedic the following standard occupational classification was used:

29-2043 Paramedics

Top Occupations

In 2022, there were 102 employer postings for the occupation related to Paramedic.

Exhibit 4 – Top Occupations by Job Postings

SOC Code	Occupation	Job Postings, Full Year 2022
29-2043	Paramedics	102

Source: Lightcast™ Analyst 2022

Exhibit 4b – Top Occupations and Risk of Automation

SOC Code	Occupation	Risk of Automation
29-2043	Paramedics	Low

Source: Lightcast™ Analyst 2022

Top Titles

The top job titles for employers posting ads for jobs related to Paramedic are listed in Exhibit 5. Paramedics is mentioned as the job title in 55% of all relevant job postings (51 postings).

Exhibit 5 – Job Titles

Title	Job Postings, Full Year 2022
Paramedics	51
Waterpark Attendants	17
Emergency Medical Technician Paramedics	9
Emergency Response Managers	5
Flight Paramedics	2

Source: Lightcast™ Analyst 2022

Top Employers

Exhibit 6 lists the major employers hiring professionals in the Paramedic field. The top employer posting job ads was AMR. The top worksite cities for the occupation were Oxnard, Moorpark, Ventura, Santa Clarita, and San Luis Obispo.

Exhibit 6 – Top Employers (n=99)

Employer	Job Postings, Full Year 2022
AMR	56
Global Medical Response	21
American Medical Response	3
Ventura County	3
Air Methods	2

Source: Lightcast™ Analyst 2022

Skills

The tables in Exhibit 7 list employers' most commonly requested skills in job postings related to Paramedic. Cardiopulmonary Resuscitation (CPR) is the most sought-after specialized skill for employers, followed by Intravenous Hydration and Defibrillation. Management, Good Driving Record, and Map Reading were the most requested baseline skills. Software Systems, Microsoft Office, and LinkedIn were the most commonly requested software and programming skills.

Exhibit 7 – Specialized Skills (n= 1,178)

Skills	Job Postings, Full Year 2022
Cardiopulmonary Resuscitation (CPR)	84
Intravenous Hydration	83
Defibrillation	82
Electrocardiography	81
Medical Equipment	81
Ambulances	78
Emergency Medical Services	77
Triage	77
Prescription Labeling	74
Patient Interviews	74
Billing	74
Medical Guideline	74
Medical Direction	74
Hoisting	31
Critical Care	10

Source: Lightcast™ Analyst 2022

Exhibit 7b – Baseline Skills (n= 439)

Skills	Job Postings, Full Year 2022
Management	86
Good Driving Record	78
Map Reading	66
Lifting Ability	31
Customer Service	29
Physical Stamina	23
Critical Thinking	15
Typing	14
Compassion	13
Professionalism	12

Source: Lightcast™ Analyst 2022

Exhibit 7c – Software and Programming Skills (n= 15)

Skills	Job Postings, Full Year 2022
Software Systems	5
Microsoft Office	2
LinkedIn	1
C (Programming Language)	1
Microsoft Excel	1
Microsoft Outlook	1
Patient Management Software	1
Microsoft Powerpoint	1
System Status	1
Google Workspace	1

Source: Lightcast™ Analyst 2022

Industry Concentration

Exhibit 8 shows the industries with the most Paramedic postings in the South Central Coast region. Note: 3% of records have been excluded because they do not include an industry. As a result, the chart below may not be representative of the full sample.

Exhibit 8 – Industries Employing the Most in the Paramedic Field, 2022

Industry	Occupation Group Jobs in Industry	% of Occupation Group in Industry
Health Care and Social Assistance	84	85%
Public Administration	5	5%
Educational Services	4	4%
Administrative and Support and Waste Management and Remediation Services	3	3%
Wholesale Trade	1	1%

Source: Lightcast™ Analyst 2022

Certifications

Exhibit 9 lists the most in-demand certifications in the Paramedic field. The top requested certification in job postings was Advanced Cardiovascular Life Support (ACLS) Certification

Exhibit 9 – Certifications (n= 582)

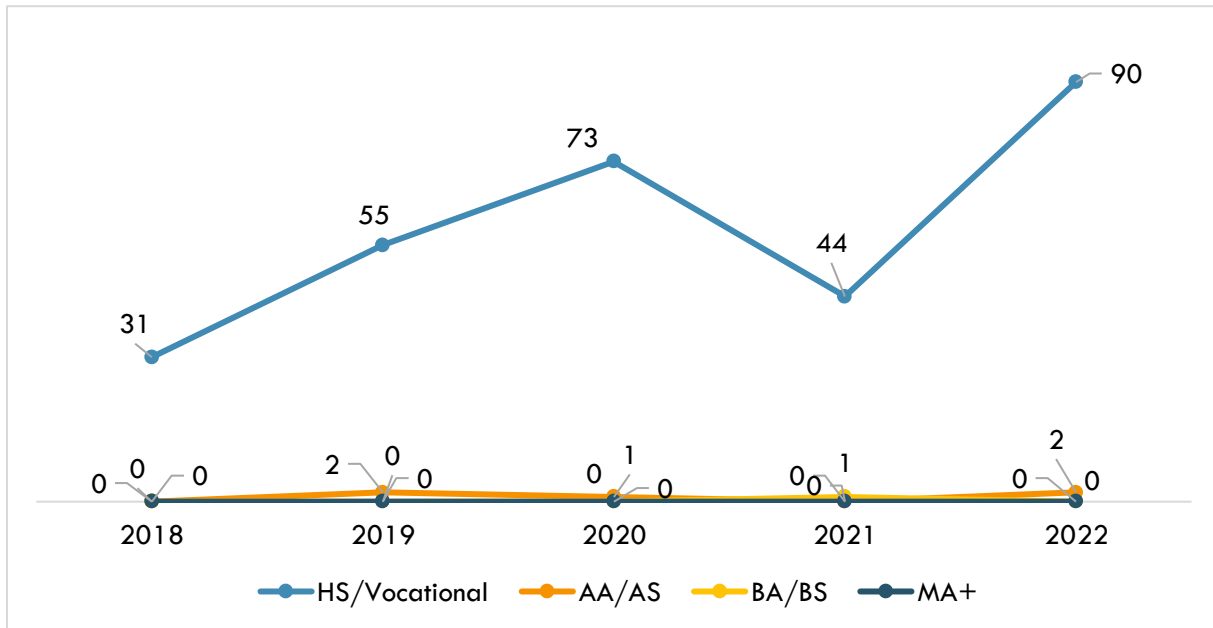
Certifications	Job Postings, Full Year 2022
Advanced Cardiovascular Life Support (ACLS) Certification	91
Valid Driver's License	89
Pediatric Advanced Life Support (PALS)	87
Paramedic (EMT-P)	79
Basic Trauma Life Support (BTLS)	74

Source: Lightcast™ Analyst 2022

Job Postings - Minimum Educational Attainment Over Time

Exhibit 10 displays the change in job advertisements over the last five years for Paramedic, according to the minimum advertised education. In 2022, there were 92 total job ads posted with a minimum advertised education, with 90 of them requiring a high school diploma or equivalent.

Exhibit 10 – Educational Demand, Minimum Advertised



Source: Lightcast™ Analyst 2022

Job Postings – Proportion of Job Postings by Minimum Educational Attainment Required

To gauge employer preference for candidates with particular education levels, the proportion of job postings by minimum advertised education appears in Exhibit 11. Employers posting job ads for Paramedic have frequently sought candidates with a high school diploma or vocational training.

Exhibit 11 – Occupational Demand by Education, Minimum Advertised

Minimum Education Requirement	2018	2019	2020	2021	2022
HS Diploma / Vocational Training	100%	96%	99%	98%	98%
Associate Degree	0%	4%	1%	0%	2%
Bachelor’s Degree	0%	0%	0%	2%	0%
Graduate Degree	0%	0%	0%	0%	0%

Source: Lightcast™ Analyst 2022

Education and Training

Exhibit 12 shows the typical entry-level education requirement for the occupation of interest, along with the typical on-the-job training needed to attain competency in the occupation.

Exhibit 12 – Education and Training Requirements

SOC	Occupation	Typical entry-level education	Typical on-the-job training
29-2043	Paramedics	Postsecondary Nondegree Award	None

Source: Bureau of Labor Statistics Employment Projections (Educational Attainment)

Regional Completions and Openings

There were 553 regional completions (2021) and 85 regional openings (2021) in the South Central Coast region aligned with programs related to the occupation in this report.

Exhibit 13 – Completions and Openings

8 Regional Institutions had Related Programs (2021)	553 Regional Completions (2021)	85 Annual Openings (2021)
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Source: Lightcast™ Analyst 2022

Related Programs

CIP Code	Program	Completions (2021)
51.0904	Emergency Medical Technology/Technician (EMT Paramedic)	553

Source: Lightcast™ Analyst 2022

CCC and Non-CCC Awards

Exhibit 14 lists the number of completers from programs related to Paramedic in the South Central Coast region.

Exhibit 14 – CCC and Non-CCC Awards the South Central Coast, 2021

CCC Programs		Completers
Oxnard College		152
Cuesta College		139
College of the Canyons		72
Moorpark College		72
Allan Hancock College		69
Ventura College		38
Non-CCC Programs		Completers
University of Antelope Valley		11
EMS Training Institute		0

Source: Lightcast™ Analyst 2022

Student Outcomes

The CTE LaunchBoard provides student outcome data on the effectiveness of CTE programs. The following student outcome information was collected from exiters of the regional Paramedic Programs (TOP: 1251.00) for the 2019-2020 academic year.

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Sources

O*Net Online, Lightcast™ Analyst 2022, MIT Living Wage Calculator, Bureau of Labor Statistics (BLS) Education Attainment, California Community Colleges Chancellor's Office Management Information Systems (MIS) Data Mart, CTE LaunchBoard, Statewide CTE Outcomes Survey, Employment Development Department Unemployment Insurance Dataset

Notes

Data included in this analysis represent the labor market demand for relevant positions most closely related to Paramedic. Traditional labor market information was used to show current and projected employment based on data trends, as well as annual average awards granted by regional community colleges. Real-time labor market information captures job post advertisements for occupations relevant to the field of study and can signal demand and show what employers are looking for in potential employees, but is not a perfect measure of the quantity of open positions. All representations have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. The most recent data available at the time of the analysis was examined; however, data sets are updated regularly and may not be consistent with previous reports. Efforts have been made to qualify and validate the accuracy of the data and findings; however, neither the Centers of Excellence for Labor Market Research (COE), COE host district, nor California Community Colleges Chancellor's Office are responsible for the applications or decisions made by individuals and/or organizations based on this study or its recommendations.