



Labor Market Information Report

Emergency Medical Responder Occupations

Cabrillo College

Prepared by the San Francisco Bay Center of Excellence for Labor Market Research
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Recommendation

Based on all traditional labor market data, there appears to be an “oversupply” of Emergency Medical Responder workers when the demand data for this occupation is compared to supply data. The apparent projected oversupply is 254 students. In the SC-Monterey sub-region (Monterey, San Benito, Santa Cruz counties), there is a projected “undersupply” of about seven (7) students in the SC-Monterey Sub-Region.

However, with regard to the possible oversupply of graduates from regional colleges, it is important to note that some community colleges in the region provide on-going training courses to incumbent EMTs, so many “low unit certificate” awards in the supply calculation should actually not be included, since these awards are for currently employed workers and are irrelevant to determining if there is a gap between supply and demand. For example, the public safety training center at Santa Rosa Junior College (SRJC) provides training to currently employed EMTs who receive non-credit or low-unit certificate awards for ongoing training. SRJC on average annually issues 621 “low unit certificate” awards.

Introduction

This report provides student outcomes data on employment and earnings for TOP 1250.00 - Emergency Medical Services programs in the state and region. It is recommended that these data be reviewed to better understand how outcomes for students taking courses on this TOP code compare to potentially similar programs at colleges in the state and region, as well as to outcomes across all CTE programs at Cabrillo College and in the region.

This report profiles Emergency Medical Responder Occupations in the 12 county Bay region and in the SC-Monterey sub-region for a noncredit vocational program at Cabrillo College.

- **Emergency Medical Technicians (29-2042):** NA
 Entry-Level Educational Requirement: Postsecondary nondegree award
 Training Requirement: None
 Percentage of Community College Award Holders or Some Postsecondary Coursework: 62%

Occupational Demand

Table 1. Employment Outlook for Emergency Medical Responder Occupations in Bay Region

Occupation	2021 Jobs	2026 Jobs	5-yr Change	5-yr % Change	5-yr Total Openings	Annual Openings	25% Hourly Earning	Median Hourly Wage
Emergency Medical Technicians	4,888	5,327	439	9%	2,457	491	\$17	\$20

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Total	4,888	5,327	439	9%	2,457	491	\$17	\$20

Source: Lightcast 2022.3

Bay Region includes: Alameda, Contra Costa, Marin, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano and Sonoma Counties

Table 2. Employment Outlook for Emergency Medical Responder Occupations in SC-Monterey Sub-region

Occupation	2021 Jobs	2026 Jobs	5-yr Change	5-yr % Change	5-yr Total Openings	Annual Openings	25% Hourly Earning	Median Hourly Wage
Emergency Medical Technicians	274	341	67	24%	182	36	\$15	\$19
Total	274	341	67	24%	182	36	\$15	\$19

Source: Lightcast 2022.3

SC-Monterey Sub-Region includes: Monterey, San Benito, Santa Cruz Counties

Job Postings in Bay Region and SC-Monterey Sub-Region

Table 3. Number of Job Postings by Occupation for latest 12 months

Occupation	Bay Region	SC-Monterey
Emergency Medical Technicians	1,261	118

Source: Lightcast

Table 4a. Top Job Titles for Emergency Medical Responder Occupations for latest 12 months - Bay Region

Title	Bay	Title	Bay
Emergency Medical Technicians - Basic	467	Emergency Response Managers	9
Emergency Medical Technicians	399	Emergency Medical Technician Instructors	8
AMR Emergency Medical Technicians	117	Emergency Medical Technician Security Officers	7
Emergency Medical Responders	19	First Aid Sales Representatives	7
Emergency Department Technicians	10	911 Coordinators	4
First Aid Responders	10		

Source: Lightcast

Table 4b. Top Job Titles for Emergency Medical Responder Occupations for latest 12 months - SC-Monterey Sub-Region

Title	SC-Monterey
Emergency Medical Technicians - Basic	79
Emergency Medical Technicians	19

Title	SC-Monterey
Emergency Response Managers	5
Emergency Response Specialists	2
Mobile Crisis Specialists	2
Adjunct Emergency Medical Services Instructors	1

Industry Concentration

Table 5. Industries hiring Emergency Medical Responder Workers in Bay Region

Industry - 6 Digit NAICS (No. American Industry Classification) Codes	Jobs in Industry (2021)	Jobs in Industry (2026)	% Change (2021-26)	% Occupation Group in Industry (2022)
Ambulance Services	2,588	2,963	14%	55%
Local Government, Excluding Education and Hospitals	1,122	1,256	12%	24%
General Medical and Surgical Hospitals	336	353	5%	7%
Hospitals (Local Government)	220	292	33%	5%
HMO Medical Centers	172	153	-11%	3%
Hospitals (State Government)	38	45	19%	1%

Source: Lightcast 2022.3

Table 6. Top Employers Posting Emergency Medical Responder Occupations in Bay Region and SC-Monterey Sub-Region

Employer	Bay	Employer	SC-Monterey
AMR	555	AMR	77
Lifestest Ambulance Services	62	Global Medical Response	12
Global Medical Response	50	Lifeguard Air Ambulance	8
Lifeguard Air Ambulance	37	Acadia Healthcare	3
Norcal Ambulance	33	Hartnell College	2
Protransport-1	30	Hartnell Community College	2

Source: Lightcast

Educational Supply

There are eight (8) community colleges in the Bay Region issuing 741 awards on average annually (last 3 years ending 2021-22) on TOP 1250.00 - Emergency Medical Services. In the SC-Monterey Sub-Region, there is one (1) community college that issued 29 awards on average annually (last 3 years) on this TOP code.

There is one (1) other CTE educational institutions in the Bay Region issuing four (4) awards on average annually (last 3 years ending 2021-22) on CIP 51.0904 - Emergency Medical Technology/Technician (EMT Paramedic). There are no

other CTE educational institution in the SC-Monterey Sub-Region issuing awards on average annually (last 3 years) on this CIP code.

Table 7a. Community College Awards on TOP 1250.00 - Emergency Medical Services in Bay Region

College	Subregion	High unit Certificate	Low unit Certificate	Total
Contra Costa	East Bay	0	1	1
Las Positas	East Bay	0	5	5
Merritt	East Bay	0	2	2
Monterey	SC-Monterey	8	21	29
San Francisco	Mid-Peninsula	0	36	36
Santa Rosa	North Bay	0	621	621
Skyline	Mid-Peninsula	0	46	46
Solano	North Bay	0	1	1
Total		8	733	741

Table 7b. Other CTE Institutions Awards on CIP 51.0904 - Emergency Medical Technology/Technician (EMT Paramedic) in Bay Region

College	Subregion	Associate degree	Total
Pacific Union College	North Bay	4	4
Total		4	4

Gap Analysis

Based on all traditional labor market data, there appears to be an “oversupply” of Emergency Medical Responder workers with 491 annual openings for the Emergency Medical Responder occupational cluster and 745 annual (3-year average) awards for an annual oversupply of 254 students. In the SC-Monterey sub-region (Monterey, San Benito, Santa Cruz counties), there is a projected “undersupply” with 36 annual openings and 29 annual (3-year average) awards for an annual undersupply of seven (7) students.

However, with regard to the possible oversupply of graduates from regional colleges, it is important to note that some community colleges in the region provide on-going training courses to incumbent EMTs, so many “low unit certificate” awards in the supply calculation should actually not be included, since these awards are for currently employed workers and are irrelevant to determining if there is a gap between supply and demand. For example, the public safety training center at Santa Rosa Junior College (SRJC) provides training to currently employed EMTs who receive non-credit or low-unit certificate awards for ongoing training. SRJC on average annually issues 621 “low unit certificate” awards.

Student Outcomes

Table 8. Four Employment Outcomes Metrics for Students Who Took Courses on TOP 1250.00 - Emergency Medical Services

Metric Outcomes	Bay All CTE Programs	Cabrillo All CTE Programs	State 1250.00	Bay 1250.00	SC-Monterey 1250.00	Cabrillo 1250.00
Students with a Job Closely Related to Their Field of Study	74%	80%	66%	67%	54%	N/A
Median Annual Earnings for SWP Exiting Students	\$53,090	\$46,381	\$35,212	\$43,194	\$37,154	N/A

Metric Outcomes	Bay All CTE Programs	Cabrillo All CTE Programs	State 1250.00	Bay 1250.00	SC-Monterey 1250.00	Cabrillo 1250.00
Median Change in Earnings for SWP Exiting Students	24%	23%	32%	30%	32%	N/A
Exiting Students Who Attained the Living Wage	54%	44%	50%	48%	50%	N/A

Source: Launchboard Strong Workforce Program Median of 2018 to 2021.

Skills, Certifications and Education

Table 9. Top Skills for Emergency Medical Responder Occupations in Bay Region

Skill	Posting	Skill	Posting
Emergency Medical Services	761	Billing	117
Ambulances	739	Number Systems	117
Medical Assistance	633	Dispatching	116
Cardiopulmonary Resuscitation (CPR)	597	Fleet Maintenance	116
Medical Equipment	527	Prescription Labeling	116
Office Equipment	526	National Incident Management Systems	114
Patient Rights	522	Emergency Medicine	111
Emergency Response	200	Hepatitis B	93
Standard Operating Procedure	138	Critical Care	90
Health Assessment	131	Tuberculosis	88

Source: Lightcast

Table 10. Certifications for Emergency Medical Responder Occupations in Bay Region

Certification	Posting	Certification	Posting
Emergency Medical Technician (EMT)	1,116	Paramedic (EMT-P)	26
Basic Life Support (BLS) Certification	761	Automated External Defibrillator (AED) Certification	23
Valid Driver's License	740	Emergency Medical Responder (EMR)	21
Emergency Medical Technician - Basic (EMT-B)	377	Certified First Responder (CFR)	20
Advanced Life Support	88	American Red Cross (ARC) Certification	18
Nationally Registered Emergency Medical Technician (NREMT)	66	CPR/AED For The Professional Rescuer	18

Certification	Posting	Certification	Posting
Cardiopulmonary Resuscitation (CPR) Certification	56	Advanced Cardiovascular Life Support (ACLS) Certification	14
Registered Nurse (RN)	44	Pediatric Advanced Life Support (PALS)	13
Certified Cardiographic Technician (CCT)	40	Licensed Vocational Nurse (LVN)	8
First Aid Certification	29	Board Certified/Board Eligible	7

Source: Lightcast

Table 11. Education Requirements for Emergency Medical Responder Occupations in Bay Region

Education Level	Job Postings	% of Total
High school or GED	880	92%
Associate degree	24	3%
Bachelor's degree & higher	44	5%

Source: Lightcast

Note: 28% of records have been excluded because they do not include a degree level. As a result, the chart above may not be representative of the full sample.

Methodology

Occupations for this report were identified by use of job descriptions and skills listed in O*Net. Labor demand data is sourced from Lightcast occupation and job postings data. Educational supply and student outcomes data is retrieved from multiple sources, including CCCCCO Data Mart and CTE Launchboard.

Sources

O*Net Online
 Lightcast
 CTE LaunchBoard www.calpassplus.org
 Launchboard
 Statewide CTE Outcomes Survey
 Employment Development Department Unemployment Insurance Dataset
 Living Insight Center for Community Economic Development
 Chancellor's Office MIS system

Contacts

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