** Emergency Medical** **Technician Occupations**

**Labor Market Information Report**

**Monterey Peninsula College**

Prepared by the San Francisco Bay Center of Excellence

for Labor Market Research

December 2018

# Recommendation

Based on all available data, there appears to be an oversupply for Emergency Medical Technician workers compared to the demand for this occupational cluster in the Bay region. The annual oversupply is 466 students in the region. In the SC-Monterey sub-region (Monterey, San Benito, and Santa Cruz Counties) there is a slight undersupply annually of 14 students.

This report also provides student outcomes data on employment and earnings for programs on TOP 1250.00 - Emergency Medical Services in the state and region. It is recommended that this 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 Monterey Peninsula College and in the region.

# Introduction

This report profiles Emergency Medical Technician Occupations in the 12 county Bay region and in the SC-Monterey sub-region for a proposed new program at Monterey Peninsula College.

|  |
| --- |
| * **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.
 |
| *Entry-Level Educational Requirement: Postsecondary nondegree award* |
| *Training Requirement: None* |
| *Percentage of Community College Award Holders or Some Postsecondary Coursework: 67%* |

# Occupational Demand

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Occupation  | 2017 Jobs | 2022 Jobs | 5-Yr Change | 5-Yr % Change | 5-Yr Open-ings | Annual Open-ings | 10% Hourly Wage | Median Hourly Wage |
| Emergency Medical Technicians and Paramedics | 4,974 | 5,751 | 777  | 16% | 2,391 | 478 | $11.33  | $17.92  |

*Source: EMSI 2018.4*

**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 Technician Occupations in SC-Monterey Sub-Region**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Occupation  | 2017 Jobs | 2022 Jobs | 5-Yr Change | 5-Yr % Change | 5-Yr Open-ings | Annual Open-ings | 10% Hourly Wage | Median Hourly Wage |
| Emergency Medical Technicians and Paramedics | 552 | 622 | 70  | 13% | 243 | 49 | $12.84  | $22.90  |

*Source: EMSI 2018.4*

**SC-Monterey Sub-Region** includes Monterey, San Benito, and 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 (Nov 2017 - Oct 2018)**

|  |  |  |
| --- | --- | --- |
| Occupation | Bay Region | SC-Monterey |
| Emergency Medical Technicians and Paramedics | 352 | 37 |

*Source: Burning Glass*

**Table 4. Top Job Titles for Emergency Medical Technician Occupations for latest 12 months (Nov 2017 - Oct 2018)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Common Title | Bay | SC-Monterey | Common Title | Bay | SC-Monterey |
| Paramedic | 77 | 14 | Emergency Room In | 6 |  |
| Emergency Medical Technician | 47 | 5 | Healthcare Specialist | 6 | 3 |
| Emt | 39 | 2 | Emt - Basic | 5 |  |
| Emergency Room | 25 | 4 | Medical Responder | 5 |  |
| Emergency Medicine | 21 | 3 | Safety/Security Emt | 5 |  |
| Emt \*\* A Sign-On \*\* | 11 |  | Norcal Ambulance Emt Call Es | 4 |  |
| Emt-B | 11 |  | Regional Technician | 4 |  |
| Emt Basic | 10 | 1 | Emt \*\* Sign-On \*\* | 3 |  |

*Source: Burning Glass*

# Industry Concentration

**Table 5. Industries hiring Emergency Medical Technician Workers in Bay Region**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Industry – 6 Digit NAICS (No. American Industry Classification) Codes | Jobs in Industry (2017) | Jobs in Industry (2022) | % Change (2017-22) | % in Industry (2017) |
| Ambulance Services (621910) | 3,069 | 3,053 | 19% | 61.3% |
| Local Government, Excluding Education and Hospitals (903999) | 912 | 920 | 8% | 18.5% |
| General Medical and Surgical Hospitals (622110) | 279 | 280 | 2% | 5.6% |
| Hospitals (Local Government) (903622) | 209 | 215 | 17% | 4.3% |
| Federal Government, Military (901200) | 182 | 181 |  (2%) | 3.6% |
| HMO Medical Centers (621491) | 57 | 57 | 37% | 1.2% |
| Unclassified Industry (999999) | 24 | 26 | 29% | 0.5% |
| Hospitals (State Government) (902622) | 24 | 25 | 50% | 0.5% |
| Colleges, Universities, and Professional Schools (State Government) (902612) | 18 | 19 | 17% | 0.4% |
| Offices of Physicians (except Mental Health Specialists) (621111) | 12 | 12 | 8% | 0.2% |
| Colleges, Universities, and Professional Schools (Local Government) (903612) | 12 | 11 |  (17%) | 0.2% |

*Source: EMSI 2018.4*

**Table 6. Top Employers Posting Emergency Medical Technician Occupations in Bay Region and SC-Monterey Sub-Region (Nov 2017 - Oct 2018)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Employer | Bay | Employer | Bay | Employer | SC-Monterey |
| Pro Transport | 38 | Sunbelt Management Associates | 4 | State of California | 3 |
| Protransport 1 | 18 | US Army | 4 | Army National Guard | 2 |
| Norcal Ambulance | 17 | Vivo Health | 4 | Practice America | 2 |
| Amr Healthcare | 15 | American Medical Response Incorporated | 3 | Amr | 1 |
| Medcor Incorporated | 15 | Army National Guard | 3 | Amr Healthcare | 1 |
| On Site Health Safety | 8 | California's Great America | 3 | Atlas Lift Tech | 1 |
| Royal Ambulance Service | 7 | Iosm | 3 | Cal Ore Life Flight | 1 |
| Amr | 5 | Six Flags Incorporated | 3 | Community Hospital Of Monterey Peninsula | 1 |
| Atlas Lift Tech | 4 | United Ambulance Corporation | 3 | On Site Health Safety | 1 |
| Careonsite Medical Services | 4 | Voyig | 3 | Salinas Union High School District | 1 |
| Falck Company | 4 | State of California | 3 | Santa Rosa Police Department | 1 |
| Falcon Ambulance | 4 | Acadia Healthcare | 2 | Six Flags Incorporated | 1 |
| Falcon Critical Care Transport | 4 | Del Norte Ambulance | 2 | US Army | 1 |
| Medcor | 4 | G4S | 2 | US Department of Defense | 1 |
| Securitas | 4 | JP Morgan Chase Company | 2 | Voyig Llc | 1 |

*Source: Burning Glass*

# Educational Supply

There are eight community colleges in the Bay Region issuing 944 awards annually on TOP 1250.00 - Emergency Medical Services. Monterey Peninsula College is the only college in the SC-Monterey sub-region issuing awards on this TOP code, with 35 awards annually.

**Table 7. Awards on TOP 1250.00 - Emergency Medical Services in the Bay Region**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| College | Sub-Region | Headcount | Certificates | Total |
| **Chabot** | East Bay | 250 |   |   |
| **Contra Costa** | East Bay | 220 |   |   |
| **Foothill** | Silicon Valley | 571 | 54 | 54 |
| **Hartnell** | Santa Cruz & Monterey | 70 |   |   |
| **Las Positas** | East Bay | 269 |   |   |
| **Los Medanos** | East Bay | 349 | 134 | 134 |
| **Marin** | North Bay | 88 |   |   |
| **Merritt** | East Bay | 155 | 1 | 1 |
| **Monterey** | Santa Cruz & Monterey | 213 | 35 | 35 |
| **Napa** | North Bay | 175 |   |   |
| **San Francisco** | Mid-Peninsula | 440 | 87 | 87 |
| **San Francisco Ctrs** | Mid-Peninsula | 132 |   |   |
| **San Jose City** | Silicon Valley | 130 |   |   |
| **San Mateo** | Mid-Peninsula | 75 |   |   |
| **Santa Rosa** | North Bay | 1,184 | 554 | 554 |
| **Skyline** | Mid-Peninsula | 274 | 52 | 52 |
| **Solano** | North Bay | 216 | 27 | 27 |
| **Total Bay Region** |  **4,811**  |  **944**  | **944** |
| **Total SC-Monterey Sub-Region** |  **283**  |  **35**  |  **35**  |

# *Source: IPEDS, Data Mart and Launchboard*

NOTE: Headcount of students who took one or more courses is for 2016-17. The annual average for awards is 2014-17 unless there are only awards in 2016-17. The annual average for other postsecondary is for 2013-16.

# Gap Analysis

Based on the data included in this report, there is an oversupply for the Basic EMS and Fire Training occupational cluster in the Bay region with 478 annual openings and 944 average annual awards for an annual oversupply of 466. In the SC-Monterey Sub-Region, there is a slight undersupply with 49 annual openings and 35 annual awards for an annual undersupply of 14.

# Student Outcomes

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 2015-16 | Bay (All CTE Programs) | Monterey Peninsula College (All CTE Programs) | State (1250.00) | Bay (1250.00) | SC-Monterey (1250.00) | Monterey Peninsula College (1250.00) |
| % Employed Four Quarters After Exit | 75% | 76% | 72% | 76% | 75% | 66% |
| Median Quarterly Earnings Two Quarters After Exit | $13,996 | $13,648 | $7,321 | $8,255 | $6,175 | $5,763 |
| Median % Change in Earnings | 40% | 29% | 68% | 59% | 73% | 48% |
| % of Students Earning a Living Wage | 63% | 71% | 52% | 52% | 40% | 37% |

*Source: Launchboard Pipeline (version available on 11/21/18)*

# Skills, Certifications and Education

**Table 9. Top Skills for Emergency Medical Technician Occupations in Bay Region (Nov 2017 - Oct 2018)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Skill | Postings | Skill | Postings | Skill | Postings |
| Cardiopulmonary Resuscitation (CPR) | 196 | Motor Vehicle Operation | 27 | Case Management | 19 |
| Patient Care | 154 | Patient Interviewing | 27 | Chickenpox | 19 |
| Advanced Cardiac Life Support (ACLS) | 86 | Basic Trauma Life Support (BTLS) | 26 | Customer Service | 19 |
| Occupational Health and Safety | 54 | Hoisting Equipment | 26 | Electronic Medical Records | 19 |
| Medical Triage | 51 | Measles Mumps Rubella (MMR) | 26 | Influenza | 19 |
| Customer Contact | 47 | Social Services | 26 | Safety Training | 19 |
| Emergency Medicine | 44 | Assisted Living | 25 | Varicella | 19 |
| Customer Billing | 37 | Treatment Planning | 25 | Vaccination | 18 |
| HAZMAT | 37 | Medical Coding | 24 | Patient Assistance | 17 |
| Electrocardiogram (EKG / ECG) | 36 | Community Relations | 23 | Fire Protection | 15 |
| Public Health and Safety | 36 | Patient Transportation and Transfer | 23 | Scheduling | 15 |
| Cleaning | 35 | Vaccines | 22 | Emergency Medical Care | 12 |
| Critical Care | 34 | Hepatitis B | 21 | Vital Signs Measurement | 12 |
| Trauma | 29 | Information Systems | 21 | Wound Care/ Treatment | 12 |
| Life Support | 28 | Emergency Vehicle Operation | 20 | Teaching | 11 |

*Source: Burning Glass*

**Table 10. Certifications for Emergency Medical Technician Occupations in the Bay Region (Nov 2017 - Oct 2018)**

Note: 11% of records have been excluded because they do not include a certification. As a result, the chart below may not be representative of the full sample.

|  |  |  |  |
| --- | --- | --- | --- |
| Certification | Postings | Certification | Postings |
| Emergency Medical Technician (EMT) | 218 | Board Certified/Board Eligible | 7 |
| Driver's License | 182 | Firefighter II | 7 |
| Advanced Cardiac Life Support (ACLS) Certification | 78 | Certified Emergency Nurse | 6 |
| Medical Examiner's License | 60 | Certified Pediatric Emergency Nurse | 6 |
| Basic Life Saving (BLS) | 54 | Board Certified in Emergency Medicine | 5 |
| Paramedic Certification | 42 | Certified Medical Assistant | 4 |
| First Aid Cpr Aed | 25 | Security Clearance | 4 |
| American Heart Association Certification | 19 | Certified Patient Account Technician | 3 |
| Basic Cardiac Life Support Certification | 19 | Nurse Practitioner | 3 |
| National Registry of Emergency Medical Technicians (NREMT) | 17 | Certified Compensation Professional (CCP) | 2 |
| Firefighter | 8 | Emergency Vehicle Operator | 2 |

*Source: Burning Glass*

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

Note: 68% of records have been excluded because they do not include a degree level. As a result, the chart below may not be representative of the full sample.

|  |  |
| --- | --- |
| Education (minimum advertised) | Latest 12 Mos. Postings |
| High school or vocational training | 107 (96%) |
| Associate Degree | 4 (4%) |
| Bachelor’s Degree or Higher | 0 (0%) |

*Source: Burning Glass*

# Methodology

Occupations for this report were identified by use of skills listed in O\*Net descriptions and job descriptions in Burning Glass. Labor demand data is sourced from Economic Modeling Specialists International (EMSI) occupation data and Burning Glass job postings data. Educational supply and student outcomes data is retrieved from multiple sources, including CTE Launchboard and CCCCO Data Mart.

# Sources

O\*Net Online

Labor Insight/Jobs (Burning Glass)

Economic Modeling Specialists International (EMSI)

CTE LaunchBoard [www.calpassplus.org/Launchboard/](http://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

For more information, please contact:

* Doreen O’Donovan, Data Research Analyst, for Bay Area Community College Consortium (BACCC) and Centers of Excellence (CoE), doreen@baccc.net or (831) 479-6481
* John Carrese, Director, San Francisco Bay Center of Excellence for Labor Market Research, jcarrese@ccsf.edu or (415) 267-6544