



# **Emergency Medical Technician/ Emergency Medical Technician-Paramedic**

**Program Report  
For Greater South Bay and Peninsula Region  
(Santa Clara and San Mateo Counties)**

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## Emergency Medical Technology/Technician (EMT Paramedic)

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CIP 2010: A program that prepares individuals, under the remote supervision of physicians, to recognize, assess, and manage medical emergencies in prehospital settings and to supervise Ambulance personnel. Includes instruction in basic, intermediate, and advanced EMT procedures; emergency surgical procedures; medical triage; rescue operations; crisis scene management and personnel supervision; equipment operation and maintenance; patient stabilization, monitoring, and care; drug administration; identification and preliminary diagnosis of diseases and injuries; communication and computer operations; basic anatomy, physiology, pathology, and toxicology; and professional standards and regulations.

## Target Occupations<sup>†</sup>

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Emergency Medical Technicians and Paramedics (29-2041)




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Ambulance Drivers and Attendants, Except Emergency Medical Technicians (53-3011)

<sup>†</sup>Based on EMSI crosswalk of the Classification of Instructional Programs (CIP) codes with Standard Occupational Classification (SOC) codes as published by the U.S. Department of Education.

In 2015, the number of emergency medical technology/technician (EMT/EMTP) jobs in the target occupations in Santa Clara and San Mateo Counties totaled 609. The Bureau of Labor Statistics (BLS) expects the total number of positions to increase by 10.6% over the next three years (higher rate than the national projections). Regional openings in 2015, which included created jobs and turnover, totaled 42. Completions in emergency medical technology programs totaled 129 from three institutions.

### Target Occupation Performance

<b>609</b> <b>Jobs (2015)<sup>1</sup></b> 77% below National average <sup>2</sup>	<b>10.6%</b> <b>Growth (2015-2018)<sup>3</sup></b> National: 7.6%	<b>\$23.05/hr</b> <b>Median Hourly Earnings</b> National: \$14.96/hr
Regional Openings (2015)	42	
Regional Program Completions (2014)	129	
All Regional Completions for Target Occupations (2014)	129	

<sup>1</sup>Based on total number of jobs for target occupations in Santa Clara and San Mateo Counties.

<sup>2</sup>Represents occupation density as compared to national average (national average=1).

<sup>3</sup>Based on turnover and new jobs.

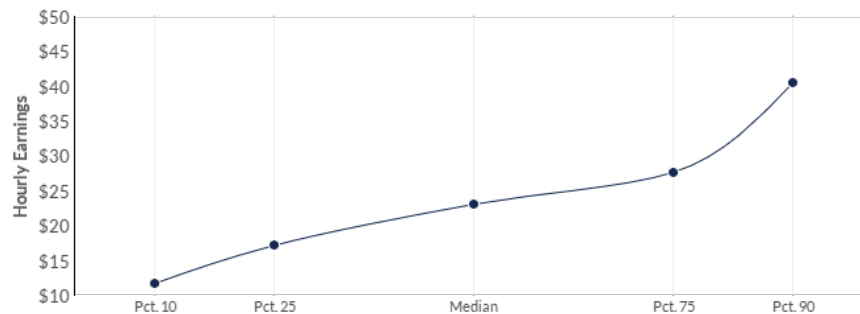
Target occupations that are mapped to the Emergency Medical Technology/Emergency Medical Technology-Paramedic program are disaggregated to see which occupations are projected to see the highest number of annual openings (EMT and EMTP), highest percentage rate of growth over the next three year (EMT and EMTP), and the highest median hourly earnings (EMT and EMTP). Note that while both target occupations are expected to experience an 8-11% job growth over the next three years, this occupation is less represented and concentrated in our region (Santa Clara and San Mateo Counties) compared to the national average.

Occupation	2015 Jobs	Annual Openings	Median Hourly Earnings	Growth (2015 - 2018)	Location Quotient (2015) <sup>2</sup>
Emergency Medical Technicians and Paramedics	558	39	\$23.78/hr	10.8%	0.23
Ambulance Drivers and Attendants, Except Emergency Medical Technicians	51	3	\$14.90/hr	8.1%	0.25

The percentile earnings table shows the range the EMT/EMTP occupations earn in the region. While the median earnings are \$23.05/hour, wages can range from below \$17.14/hour to above \$27.63/hour. Each of the target occupations' range in wages are also displayed.

### Target Occupations Percentile Earnings

<b>\$17.14/hr</b>	<b>\$23.05/hr</b>	<b>\$27.63/hr</b>
<b>25th Percentile Earnings</b>	<b>Median Earnings</b>	<b>75th Percentile Earnings</b>



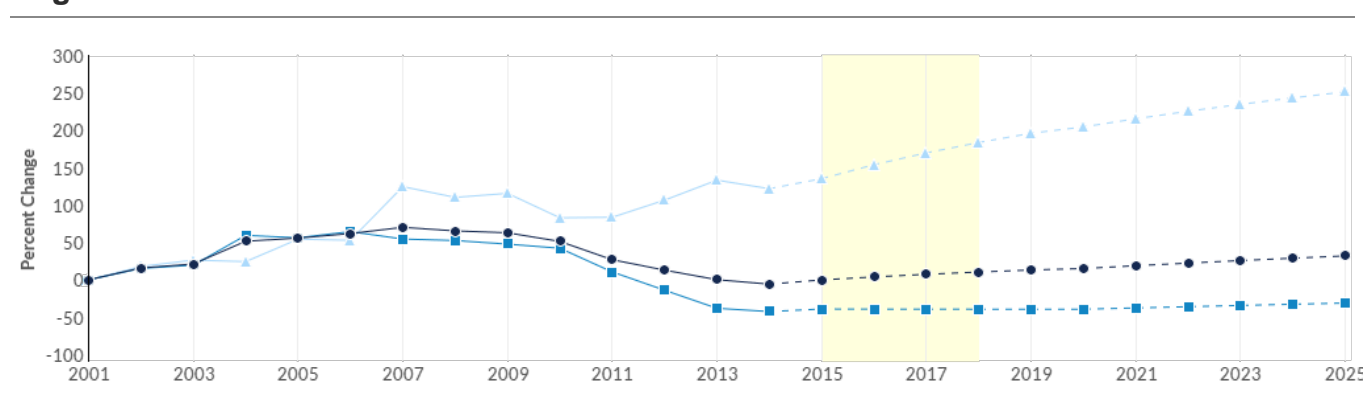
<b>Occupation</b>	<b>25th Percentile Earnings</b>	<b>Median Earnings</b>	<b>75th Percentile Earnings</b>
Emergency Medical Technicians and Paramedics (29-2041)	\$17.50	\$23.78	\$28.51
Ambulance Drivers and Attendants, Except Emergency Medical Technicians (53-3011)	\$13.16	\$14.90	\$17.89

Growth in the EMT/EMTP occupations show how each occupation is projected to increase or decrease in jobs over the next three years. Modest growth is expected in the number of jobs added to both target occupations (less than 100).

### Growth for Emergency Medical Technology/Technician (EMT Paramedic) Occupations

	<b>609</b> 2015 Jobs	<b>673</b> 2018 Jobs	<b>64</b> Change (2015-2018)	<b>10.6%</b> % Change (2015-2018)
Occupation	2015 Jobs	2018 Jobs	Change	% Change
Emergency Medical Technicians and Paramedics (29-2041)	558	618	60	11%
Ambulance Drivers and Attendants, Except Emergency Medical Technicians (53-3011)	51	55	4	8%

### Regional Trends



	Region	2015 Jobs	2018 Jobs	Change	% Change
●	Region	609	673	64	10.5%
●	Santa Clara County, CA	289	287	-2	-0.7%
●	San Mateo County, CA	320	386	66	20.6%

## Program Completion Data

Program data reviews completion information about awards by institution and types of awards conferred in the region (Santa Clara and San Mateo Counties). Foothill College is one of four regional institutions that are supporting and preparing for Emergency Medical Technology/Technician-Paramedic occupations.




### Program Summary for Emergency Medical Technology/Technician (EMT Paramedic)

<b>4</b>	<b>129</b>	<b>50</b>
<b>Regional Institutions</b>	<b>Regional Program Completions (2014)</b>	<b>Annual Openings (2014)</b>
	Foothill College Completions: 11	

### Regional Completions by Institution

<b>Institution</b>	<b>Certificates (2014)</b>	<b>Degrees (2014)</b>	<b>Total Completions (2014)</b>
Skyline College	61	0	61
WestMed College	57	0	57
Foothill College	2	9	11
San Jose City College	0	0	0



### Regional Completions by Award Level

<b>Award Level</b>	<b>Completions (2014)</b>	<b>Percent</b>
Award of less than 1 academic year	61	47.3% 
Award of at least 1 but less than 2 academic years	59	45.7% 
Associates degree	9	7.0% 

## Target Occupations Demographics

The demographics among those employed in Emergency Medical Technology/Technician-Paramedic occupations in Santa Clara and San Mateo Counties for 2015 show that a majority are male (64%) and approximately two-thirds are between the ages of 25-44 (66%) and White (64%).








### Occupation Gender Breakdown

Gender	2015 Jobs	2015 Percent
Males	388	63.8% 
Females	220	36.2% 

### Occupation Age Breakdown

Age	2015 Jobs	2015 Percent
14-18	1	0.2% 
19-24	67	11.0% 
25-34	230	37.8% 
35-44	177	29.1% 
45-54	86	14.2% 
55-64	39	6.4% 
65+	8	1.4% 

### Occupation Race/Ethnicity Breakdown

Race/Ethnicity	2015 Jobs	2015 Percent
White	389	63.8% 
Hispanic or Latino	113	18.5% 
Asian	52	8.6% 
Black or African American	34	5.6% 
Two or More Races	15	2.4% 
American Indian or Alaska Native	4	0.7% 
Native Hawaiian or Other Pacific Islander	2	0.3% 

## Industries Employing Emergency Medical Technology/Technician (EMT Paramedic) Occupations

A number of industries in Santa Clara and San Mateo Counties employ those trained in EMT/EMTP and its related occupations. The following table represents a regional industry breakdown of the number of EMT/EMTP positions employed, the percentage of EMT/EMTP employed by industry and the percentage EMT/EMTP jobs represent within all jobs by each industry. While ambulance services employed 40% of all regional EMT/EMTP positions in 2015, these positions also represent half of the total jobs in that industry (51%).

### Top Industries Employing Emergency Medical Technology/Technician (EMT Paramedic) Occupations

Industry	Occupation Group Jobs in Industry (2015)	% of Occupation Group in Industry (2015)	% of Total Jobs in Industry (2015)
Ambulance Services	246	40.4%	51.0%
Local Government, Excluding Education and Hospitals	172	28.2%	0.4%
General Medical and Surgical Hospitals	66	10.9%	0.2%
Hospitals (Local Government)	34	5.6%	0.5%
Special Needs Transportation	16	2.6%	2.2%



## Appendix A - Data Sources and Calculations

### Completers Data

The completers data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

### Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

### Occupation Data

EMSI occupation employment data are based on final EMSI industry data and final EMSI staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates also affected by county-level EMSI earnings by industry.

### Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

### Industry Data

EMSI industry data have various sources depending on the class of worker. (1) For QCEW Employees, EMSI primarily uses the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns and Current Employment Statistics. (2) Non-QCEW employees data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics. (3) Self-Employed and Extended Proprietor classes of worker data are primarily based on the American Community Survey, Nonemployer Statistics, and BEA State and Local Personal Income Reports. Projections for QCEW and Non-QCEW Employees are informed by NIOEM and long-term industry projections published by individual states.

### Staffing Patterns Data

The staffing pattern data in this report are compiled from several sources using a specialized process. For QCEW and Non-QCEW Employees classes of worker, sources include Occupational Employment Statistics, the National Industry-Occupation Employment Matrix, and the American Community Survey. For the Self-Employed and Extended Proprietors classes of worker, the primary source is the American Community Survey, with a small amount of information from Occupational Employment Statistics.

### State Data Sources

This report uses state data from the following agencies: California Labor Market Information Department