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**EMT and EMTP Program Report**

**For Greater South Bay and Peninsula Region**

**(Santa Clara and San Mateo Counties)**

**November 2014**

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| **Emergency Medical Technology/Technician (EMT Paramedic)** |

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.

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| **Target Occupations**‡ |
| Emergency Medical Technicians and Paramedics (29-2041) |
| Ambulance Drivers and Attendants, Except Emergency Medical Technicians (53-3011) |

‡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 2014, the number of emergency medical technology/technician (EMT/EMTP) jobs in the target occupations in Santa Clara and San Mateo Counties totaled 819. The Bureau of Labor Statistics (BLS) expects the total number of positions to increase by 7.1% over the next three years. Regional openings in 2014, which included created jobs and turnover, totaled 51. Completions in emergency technology programs totaled 103 from three institutions, with an additional 152 completions from other related programs. These additional programs are linked to multiple occupations and not all those who complete will enter the target occupations indicated in this report.

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| **Target Occupation Performance** | | |
| **819\*** | **7.1%** | **$21.23/hr** |
| **Jobs (2014)** | **Growth (2014-2017)** | **Median Earnings** |
| National Location Quotient: 0.32† | National: 8.3% | National: $14.77/hr |

\*Based on total number of jobs for target occupations in Santa Clara and San Mateo Counties.

†Represents occupation density as compared to national average (national average=1).

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| --- | --- | --- |
| Regional Openings (2014) | 51 |  |
| Regional Program Completions (2013) | 103 |  |
| All Regional Completions for Target Occupations (2013) | 255 |  |

**Emergency Medical Technology Occupations Performance**

| **Target Occupations** | **Regional Openings (2014)** | **Median Hourly Earnings** | **Growth (2014-2017)** |
| --- | --- | --- | --- |
| Ambulance Drivers and Attendants, Except Emergency Medical Technicians (53-3011) | 4 | $17.79 | 15.7% |
| Emergency Medical Technicians and Paramedics (29-2041) | 46 | $21.47 | 6.5% |

**Regional Breakdown for Emergency Medical Technology Occupations**

| **Target Occupations** | **Regional Openings (2014)** | **Median Hourly Earnings** | **Growth (2014-2017)** |
| --- | --- | --- | --- |
| Ambulance Drivers and Attendants, Except Emergency Medical Technicians (53-3011) | 4 | $17.79 | 15.7% |
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| --- | --- |
| **Regional Emergency Medical Technology Training Providers** | |
| **3** | **103\*** |
| **Institutions** | **Completions (2013)** |

\*Based on IPEDS data.

| **Institution** | **Degrees** | **Certificates** | **Total Completions** |
| --- | --- | --- | --- |
| Skyline College | 0 | 83 | 83 |
| WestMed College | 0 | 15 | 15 |
| Foothill College | 4 | 1 | 5 |

Other regional programs may train individuals eligible for the targeted accounting technology occupations, which are based on an occupation-program crosswalk developed by the Department of Education. This additional program is offered at San Jose State University. As noted earlier, many postsecondary programs are linked to multiple occupations and not all those who complete the program will enter the target occupation.

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| **Related Regional Programs Allowing Entry to Emergency Medical Tech. Occupations** | |
| **2** | **255** |
| **Programs (2013)** | **Completions (2013)** |

| **Program** | **2009** | **2010** | **2011** | **2012** | **2013** |
| --- | --- | --- | --- | --- | --- |
| Health Services/Allied Health/Health Sciences, General (51.0000) | 99 | 122 | 120 | 137 | 152 |
| Emergency Medical Technology/Technician (EMT Paramedic) (51.0904) | 59 | 88 | 74 | 107 | 103 |

**Target Occupations Demographics**

The demographics among those employed in the target accounting technology occupations in Santa Clara and San Mateo Counties for 2013 show that just above half are men (55%) and nearly two-thirds are between the ages of 25-44 (59%).

**Gender Demographics (Regional)**

|  |  |  |
| --- | --- | --- |
| Gender |  |  |
| Male | 55% |  |
| Female | 45% |  |

**Age Demographics (Regional)**

|  |  |  |
| --- | --- | --- |
| Age |  |  |
| 14-18 | 0% |  |
| 19-24 | 7% |  |
| 25-44 | 59% |  |
| 45-64 | 31% |  |
| 65+ | 3% |  |

**Industries Employing Emergency Medical Technology Occupations**

A number of industries in Santa Clara and San Mateo Counties employ those trained in emergency medical technology occupations. The following table represents a regional industry breakdown of the number of emergency medical technology positions employed, the percentage of emergency technology jobs employed by industry and the percentage emergency technology jobs represent within all jobs by each industry. While ambulance services employed 34.9% of all regional emergency medical technicians in 2014, emergency medical technology and its related occupations represent nearly two-thirds of the total jobs in that industry (59.1%).

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| --- | --- | --- | --- |
| **Inverse Staffing Patterns** | | | |
| **Industry** | **Occupation Group Jobs in Industry (2014)** | **% of Occupation Group in Industry (2014)** | **% of Total Jobs in Industry (2014)** |
| Ambulance Services (621910) | 286 | 34.9% | 59.1% |
| Local Government, Excluding Education and Hospitals (903999) | 261 | 31.9% | 0.7% |
| General Medical and Surgical Hospitals (622110) | 100 | 12.2% | 0.4% |
| Hospitals (Local Government) (903622) | 53 | 6.4% | 0.7% |
| HMO Medical Centers (621491) | 19 | 2.4% | 0.2% |

**Compatible Occupations for Emergency Medical Technology**

Individuals completing an emergency medical technology program share many skills and abilities with other occupations. The Occupational Information Network (O\*Net) identifies compatible occupations based on an analysis of overlapping knowledge, skills and ability. Additional education required for transition can range from short on-site training to advanced post-secondary degrees. The following tables show how much education might be needed to be employed in these compatible occupations.

**Top Ten Compatible Occupations for Emergency Medical Technology: Associate’s or Less**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Rank | Occupation | Median Hourly Earnings | 2014 Jobs | 2014-2017 Change | 2014-2017 Estimated Annual Openings |
| 1 | Segmental Pavers | $19.06 | 12 | (1) | 0 |
| 2 | Animal Control Workers | $23.12 | 57 | 2 | 1 |
| 3 | Transportation Security Screeners | $20.44 | 288 | 6 | 7 |
| 4 | Taxi Drivers and Chauffeurs | $12.22 | 2,421 | 258 | 88 |
| 5 | Laborers and Freight, Stock, and Material Movers, Hand | $13.61 | 19,759 | 347 | 552 |
| 6 | Transportation Attendants, Except Flight Attendants | $15.01 | 342 | 14 | 8 |
| 7 | Parking Lot Attendants | $11.78 | 2,041 | (5) | 81 |
| 8 | Railroad Brake, Signal, and Switch Operators | $24.74 | 31 | 1 | 1 |
| 9 | Driver/Sales Workers | $14.07 | 2,262 | 144 | 67 |
| 10 | Parking Enforcement Workers | $22.58 | 193 | (1) | 4 |

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| **Data Sources and Calculations** |

**State Data Sources**

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

**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.

**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.

**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.

**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.

**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.