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**Dental Hygiene Program Report**
**For Greater South Bay and Peninsula Region**

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

**November 2014**

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| **Dental Hygiene/Hygienist** |

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| **Target Occupations**‡ |
| Dental Hygienists (29-2021) |

CIP 2010: A program that prepares individuals to clean teeth and apply preventive materials, provide oral health education and treatment counseling to patients, identify oral pathologies and injuries, and manage dental hygiene practices. Includes instruction in dental anatomy, microbiology, and pathology; dental hygiene theory and techniques; cleaning equipment operation and maintenance; dental materials; radiology; patient education and counseling; office management; supervised clinical training; and professional standards.

‡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.

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| **Target Occupation Performance** |
| **2,103\*** | **6.1%\*** | **$51.03/hr** |
| **Jobs (2014)** | **Growth (2014-2017)** | **Median Earnings** |
| National Location Quotient: 1.10† | National: 8.7% | National: $34.68/hr |

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| --- | --- | --- |
| Regional Openings (2014)\*\* | 103 |  |
| Regional Program Completions (2013) | 71 |  |
| All Regional Completions for Target Occupations†† (2013) | 223 |  |

In 2014, the number of dental hygiene/hygienist jobs in Santa Clara and San Mateo Counties totaled 21,03. The Bureau of Labor Statistics (BLS) expects the total number of positions to increase by 6.1% over the next three years. Regional openings in 2014, which included created jobs and turnover, totaled 103. Completions in dental hygienist programs totaled 71 from two institutions, with an additional 152 completions from other related programs. These other programs are linked to multiple occupations and not all those who complete will enter the target occupations indicated in this report.

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

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

| **Target Occupations** | **Regional Openings (2014)** | **Median Hourly Earnings** | **Growth (2014-2017)** |
| --- | --- | --- | --- |
| Dental Hygienists (29-2021) | 103 | $51.03 | 6.1% |

\*\*Openings include created jobs and turnover.

†† Includes all regional programs applicable to target occupations.

**Dental Hygienist Occupation Performance**

 **Regional Breakdown for Dental Hygiene/Hygienist**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| County Name | 2014 Jobs | 2017 Jobs | 2014 Annual Openings | Median Hourly Earnings | 2014 National Location Quotient |
| Santa Clara | 1,552 | 1,655 | 79 | $49.83 | 1.12 |
| San Mateo | 551 | 576 | 24 | $54.06 | 1.06 |
| Total | 2,103 | 2,231 | 103 | $51.03 |  |

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| **Regional Dental Hygiene Training Providers** |
| **2** | **71\*** |
| **Institutions** | **Completions (2013)** |

\*Based on IPEDS data.

| **Institution** | **Degrees** | **Certificates** | **Total Completions** |
| --- | --- | --- | --- |
| Carrington College California-San Jose | 49 | 0 | 49 |
| Foothill College | 22 | 0 | 22 |



Other regional programs may train individuals eligible for dental hygiene occupations, which are based on an occupation-program crosswalk developed by the Department of Education. Additional programs are 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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| **Educational programs** |
| **3** | **223** |
| **Programs (2013)** | **Completions (2013)** |
| **Program** | **2009** | **2010** | **2011** | **2012** | **2013** |
| Health Services/Allied Health/Health Sciences, General (51.0000) | 99 | 122 | 120 | 137 | 152 |
| Dental Hygiene/Hygienist (51.0602) | 63 | 78 | 56 | 75 | 71 |
| Dental Services and Allied Professions, Other (51.0699) | 0 | 0 | 69 | 0 | 0 |

 **Target Occupation Demographics**

|  |  |  |
| --- | --- | --- |
| Gender |   |   |
| Male | 4% |  |
| Female | 96% |  |

The demographics among those employed in dental hygiene occupations in Santa Clara and San Mateo Counties for 2014 show that almost all are women (96%) and over half are between the ages of 25-44 (55%). The national breakdown of the education level among those employed in dental hygiene occupations show that 61% have earned an Associate’s degree or have completed some college.

**Gender Demographics (Regional)**

**Age Demographics (Regional)**

|  |  |  |
| --- | --- | --- |
| Age |   |   |
| 14-18 | 0% |  |
| 19-24 | 5% |  |
| 25-44 | 55% |  |
| 45-64 | 38% |  |
| 65+ | 2% |  |

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| **Educational Attainment (National)** |
| Doctoral or professional degree | 2% |  |
| Master's degree | 2% |  |
| Bachelor's degree | 32% |  |
| Associate's degree | 55% |  |
| Some college, no degree | 6% |  |
| High school diploma or equivalent | 3% |  |
| Less than high school diploma | 0% |  |

**Industries Employing Dental Hygiene/Hygienist Occupations**

A number of industries in Santa Clara and San Mateo Counties employ those trained in dental hygiene. The following table represents a regional industry breakdown of the number of dental hygienists employed, the percentage of dental hygiene/hygienist jobs employed by industry and the percentage dental hygiene/hygienist jobs represent within all jobs by each industry. While dentists offices employed 97.3% of all regional dental hygienists in 2014, this targeted occupation made up 16.0% in that industry.

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| **Inverse Staffing Patterns (Regional)** |
| **Industry** | **Occupation Jobs in Industry (2014)** | **% of Occupation in Industry (2014)** | **% of Total Jobs in Industry (2014)** |
| Offices of Dentists (621210) | 2,046 | 97.3% | 16.0% |
| HMO Medical Centers (621491) | 10 | 0.5% | 0.1% |
| Temporary Help Services (561320) | 10 | 0.5% | 0.0% |
| Offices of Physicians (except Mental Health Specialists) (621111) | <10 | 0.5% | 0.1% |
| Unclassified Industry (999999) | <10 | 0.3% | 0.2% |

**Compatible Occupations for Dental Hygiene**

Individuals completing a dental hygiene 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 table shows how much education might be needed to be employed in these compatible occupations.

**Top Ten Compatible Occupations for Dental Hygiene: Associate’s Degree or Less**

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| --- | --- | --- | --- | --- | --- |
| Rank | Occupation | Median Hourly Earnings | 2014 Jobs | 2014-2017 Change | 2014-2017 Estimated Annual Openings |
| 1 | Phlebotomists | $20.51 | 649 | 72 | 28 |
| 2 | Dental Assistants | $21.57 | 4,347 | 160 | 109 |
| 3 | Occupational Therapy Aides | $19.38 | 92 | 7 | 4 |
| 4 | Physical Therapist Aides | $14.52 | 316 | 30 | 13 |
| 5 | Cardiovascular Technologists and Technicians | $28.15 | 211 | 22 | 8 |
| 6 | Veterinary Assistants and Laboratory Animal Caretakers | $16.49 | 796 | 34 | 20 |
| 7 | Skincare Specialists | $16.79 | 397 | 51 | 15 |
| 8 | Occupational Therapy Assistants | $25.22 | 47 | 13 | 4 |
| 9 | Endoscopy Technicians | $22.37 | 746 | 44 | 23 |
| 10 | Personal Care Aides | $12.19 | 11,076 | 2,141 | 603 |

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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.