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

Respiratory Care Therapy/Therapist

CIP 2010: A program that prepares individuals, under the supervision of physicians, to assist in developing respiratory care plans, administer respiratory care procedures, supervise personnel and equipment operation, maintain records, and consult with other health care team members. Includes instruction in the applied basic biomedical sciences; anatomy, physiology, and pathology of the respiratory system; clinical medicine; therapeutic procedures; clinical expressions; data collection and record-keeping; patient communication; equipment operation and maintenance; personnel supervision; and procedures for special population groups.

Target Occupations

Respiratory Therapists

Respiratory Therapy Technicians

In 2011, the number of respiratory therapy (respiratory care therapy/therapist) jobs in Santa Clara and San Mateo Counties totaled 893. The Bureau of Labor Statistics (BLS) expects the total number of positions to increase by 2.3% over the next three years. Regional openings in 2011, which included created jobs and turnover, totaled 56. Completions in respiratory therapy programs totaled 43 from two institutions, with an additional 120 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.

Target Occupation Performance

893* Jobs (2011) Location Quotient: 0.75 [†]	2.3%* Growth (2012-2015) National: 6.8%	\$40.22/hr Median Earnings National: \$26.09/hr
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*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).

Regional Openings (2011)**	56	
Regional Program Completions (2010-2011)	43	
All Regional Completions for Target Occupations (2011) ^{††}	163	

**Openings include created jobs and turnover.

^{††} Includes all regional programs applicable to target occupations.

Respiratory Therapy Occupation Performance

Target Occupations	Regional Openings (2011)	Median Hourly Earnings	Growth (2012-2015)	Job Postings [§] As of 10/29/12
Respiratory Therapists	53	\$40.90	2.5%	14
Respiratory Therapy Technicians	3	\$22.55	-3.0%	2

Regional Breakdown for Respiratory Care Therapy

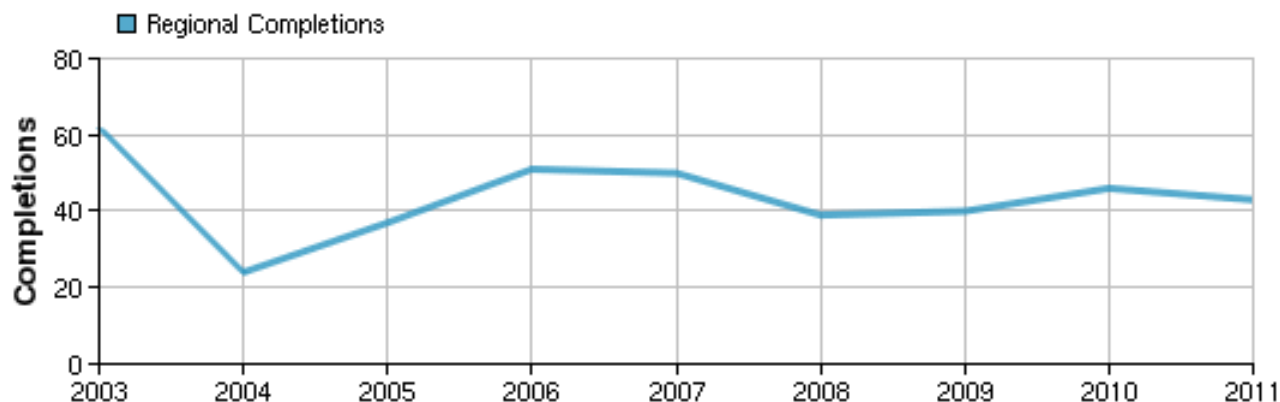
County Name	2012 Jobs	2015 Jobs	2012 Annual Openings	Median Hourly Earnings	2012 National Location Quotient
Santa Clara	650	665	17	\$40.36	0.72
San Mateo	281	287	7	\$39.91	0.82
Total	931	952	24	\$40.22	

[§] Current Job Postings as of 10/29/12.

Regional Respiratory Therapy Training Providers

2 Institutions	43* Completions (2010-2011)
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*Based on IPEDS data.



Institution	Degrees	Certificates	Total Completions
Foothill College	22	0	22
Skyline College	21	0	21

Other regional programs may train individuals eligible for respiratory therapy 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.

Related Regional Educational Programs Allowing Entry to Respiratory Therapy

1 Programs (2011)	120 Completions (2010-2011)
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Program	2007	2008	2009	2010	2011
Health Services/Allied Health/Health Sciences, General	54	79	99	122	120





Target Occupation Demographics

The demographics among those employed in respiratory care therapy occupations in Santa Clara and San Mateo Counties for 2012 show over three-fourths are women (78.2%) and over half are between the ages of 35-54 (58.7%). The national breakdown of the education level among those employed in respiratory care therapy occupations show that 69% have earned an Associate's degree or have completed some college.




Gender Demographics (Regional)

Gender	Jobs (2012)	% of Total	
Males	202	21.8%	
Females	728	78.2%	

Age Demographics (Regional)

Age	Jobs (2012)	% of Total	
14-18 Years	0	0.0%	
19-21 Years	0	0.0%	
22-24 Years	<10	0.8%	
25-34 Years	209	22.4%	
35-44 Years	264	28.3%	
45-54 Years	283	30.4%	
55-64 Years	160	17.2%	
65+ Years	<10	0.8%	

Educational Attainment (National)

Doctoral or professional degree	2%	
Master's degree	3%	
Bachelor's degree	24%	
Associate's degree	56%	
Some college, no degree	13%	
High school diploma or equivalent	2%	
Less than high school diploma	0%	

Industries Employing Respiratory Therapy Occupations

A number of industries in Santa Clara and San Mateo Counties employ those trained in respiratory care therapy. The following table represents a regional industry breakdown of the number of respiratory therapists employed, the percentage of respiratory therapists employed by industry and the percentage respiratory therapist jobs represent within all jobs by each industry. While private medical and surgical hospitals employed 64.1% of all respiratory therapists in 2012, respiratory care therapists represent only 2.2% of the total jobs in that industry.

Inverse Staffing Patterns (Regional)

Top Five Industries	Occupation Group Jobs in Industry (2012)	% of Occupation Group in Industry (2012)	% of Total Jobs in Industry (2012)
General Medical and Surgical Hospitals (Private)	596	64.1%	2.2%
Hospitals (Local Government)	119	12.8%	2.0%
Temporary Help Services	31	3.3%	0.1%
Nursing Care Facilities	21	2.2%	0.3%
HMO Medical Centers	20	2.2%	0.2%
Computer and Computer Peripheral Equipment and Software Merchant Wholesalers	17	1.9%	0.2%
All Other Consumer Goods Rental	11	1.3%	1.4%
Home Health Care Services	9	1.0%	0.2%
Specialty (except Psychiatric and Substance Abuse)	8	0.9%	3.4%

Compatible Occupations for Respiratory Therapy

Individuals completing a respiratory therapy 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.

Compatible Occupations* for Respiratory Therapy: Associate's Degree or Less

Rank	Occupation	Median Hourly Earnings	2012 Jobs	2012-2015 Change	2012-2015 Estimated Annual Openings
1	Radiation Therapists	\$47.17	142	9	4
2	Nuclear Medicine Technologists	\$46.09	117	6	3
3	Cardiovascular Technologists and Technicians	\$32.22	238	14	6
4	Diagnostic Medical Sonographers	\$45.48	392	20	9
5	Coroners	\$31.58	2,179	162	59
6	Registered Nurses	\$53.60	18,801	1,101	532
7	Radiologic Technicians	\$36.93	1,244	77	34
8	Dental Hygienists	\$45.64	1,659	85	48
9	Veterinary Technologists and Technicians	\$19.55	808	37	25
10	Licensed Practical and Licensed Vocational Nurses	\$27.75	4,136	247	163
11	Occupational Therapist Aides	\$14.67	119	4	2
12	Radiologic Technologists	\$36.93	1,244	77	34
13	Surgical Technologists	\$26.68	865	76	36
14	Occupational Therapist Assistants	\$26.48	135	8	3

Compatible Occupations* for Respiratory Therapy: Bachelor's Degree or More

Rank	Occupation	Median Hourly Earnings	2012 Jobs	2012-2015 Change	2012-2015 Estimated Annual Openings
1	Physician Assistants	\$51.96	476	61	23
2	Physical Therapists	\$39.46	1,239	65	28
3	Medical and Clinical Laboratory Technologists	\$41.89	1,262	60	34
4	Pharmacists	\$58.57	1,877	48	45
5	Occupational Therapists	\$41.03	785	39	21
6	Microbiologists	\$43.24	390	23	15
7	Dietitians and Nutritionists	\$37.71	554	29	22
8	Podiatrists	\$55.33	146	3	3

* Compatible occupations are based on O*Net compatibility index values over 90.

Data Sources and Calculations

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.

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.

Data Sources

This report uses employment data from the Quarterly Census of Employment and Wages (QCEW) reported by the US Bureau of Labor Statistics (BLS) and includes self-employed workers who count their self-employed work as their primary source of income. Non-QCEW workers such as railroad, military and some non-QCEW government employees are not included.

O*Net Compatibility Index

The Occupational Information Network (O*NET) is being developed under the sponsorship of the US Department of Labor/Employment and Training Administration (USDOL/ETA) through a grant to the North Carolina Department of Commerce.

Each descriptor in O*NET OnLine is associated with a scale, such as Importance, Level, Context and Extent of the activity. Each scale has a minimum and maximum value. Because each of these scales covers a different numerical range, a descriptor mean of 3.0 signifies something different in each scale.

The equation for conversion of original ratings to standardized scores is: $S = ((O - L) / (H - L)) * 100$, where S is the standardized score, O is the original rating score on one of the three scales, L is the lowest possible score on the rating scale used, and H is the highest possible score on the rating scale used. For example, an original Importance rating score of 3 is converted to a standardized score of 50 ($50 = [(3 - 1) / (5 - 1)] * 100$). For another example, an original Level rating score of 5 is converted to a standardized score of 71 ($71 = [(5 - 0) / (7 - 0)] * 100$).