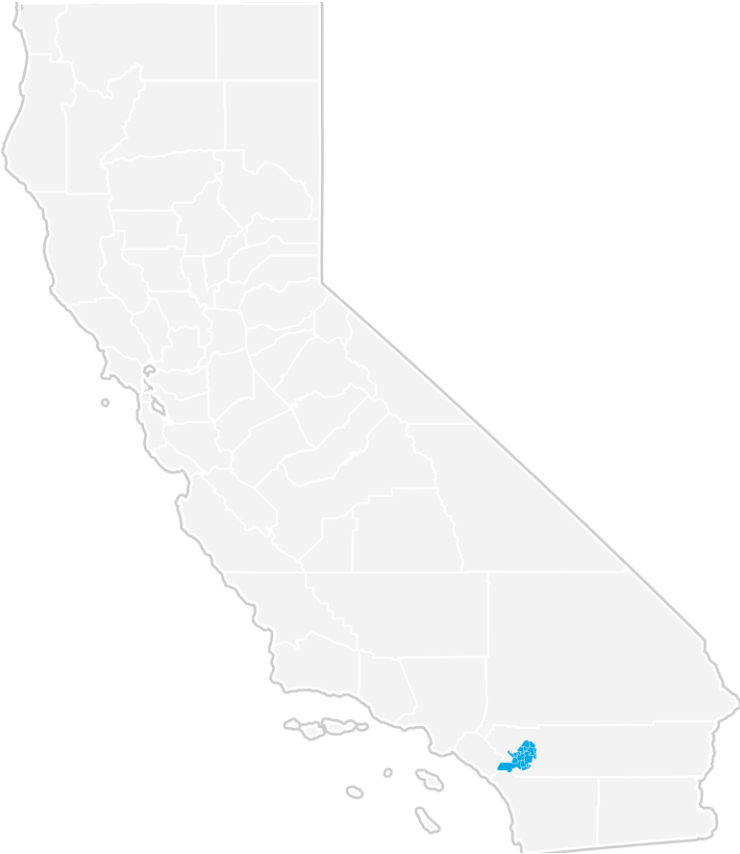


Occupation Report for Licensed Practical and Licensed Vocational Nurses MSJC



JOBS eQ

June 12, 2019

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Definition of Licensed Practical and Licensed Vocational Nurses, SOC 29-2061

Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. May work under the supervision of a registered nurse. Licensing required.

Occupation Snapshot

As of 2019Q1, total employment for Licensed Practical and Licensed Vocational Nurses in the MSJC was 584. Over the past three years, this occupation added 57 jobs in the region and is expected to increase by 100 jobs over the next seven years, or at an annual average rate of 2.3%.

Occupation Snapshot of Licensed Practical and Licensed Vocational Nurses in MSJC, 2019q1

Current						3-Year History		7-Year Forecast				
Four Quarters Ending with 2019q1			----2019q1----			Total Change	Avg Ann % Chg in Empl	--Separations--			---Growth---	
Empl	Avg Ann Wages ¹	LQ	Unempl	Unempl Rate	Online Job Ads ²	Empl	Region	Total New Demand	Exits	Transfers	Empl	Avg Ann Rate
584	\$48,200	1.15	43	4.2%	16	57	3.5%	419	159	159	100	2.3%

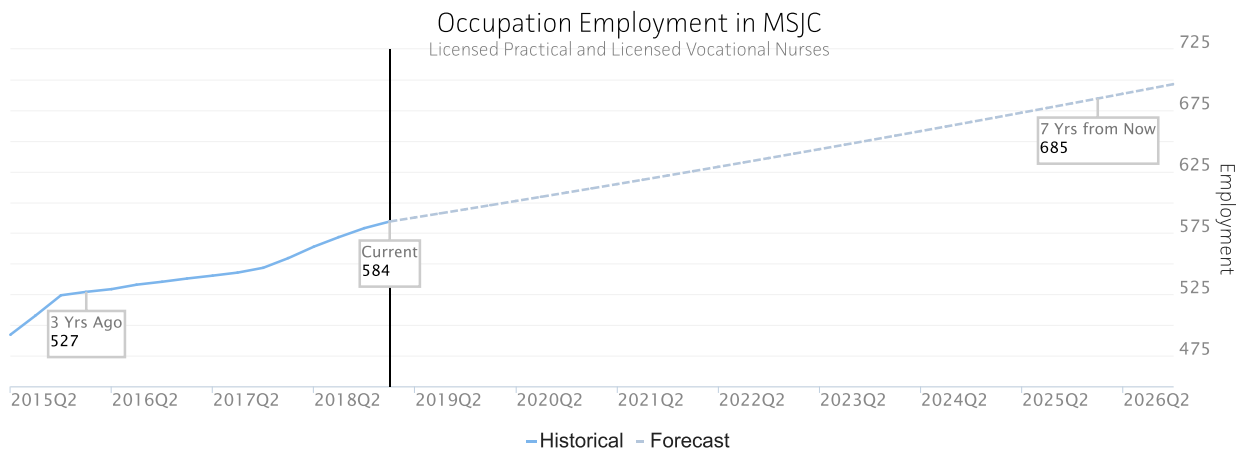
Source: JobsEQ®

Data as of 2019Q1 unless noted otherwise

Note: Figures may not sum due to rounding.

1. Occupation wages are as of 2017 and should be taken as the average for all Covered Employment

2. Data represent found online ads active within the last thirty days in the selected region; data represents a sampling rather than the complete universe of postings. Ads lacking zip code information but designating a place (city, town, etc.) may be assigned to the zip code with greatest employment in that place for queries in this analytic. Due to alternative county-assignment algorithms, ad counts in this analytic may not match that shown in RTI (nor in the popup window ad list).



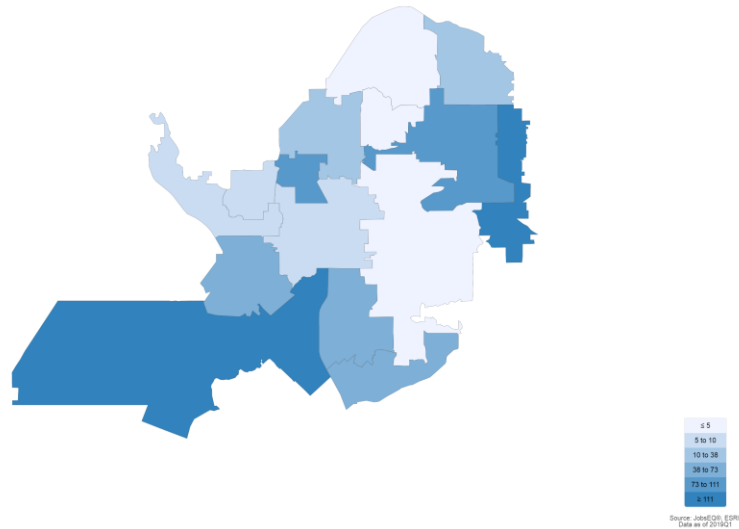
Source: JobsEQ®, Data as of 2019Q1. The shaded areas represent national recessions.

Occupation employment data are estimated via industry employment data and the industry/occupation mix. Industry employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and currently updated through 2018Q3, imputed where necessary with preliminary estimates updated to 2019Q1. Wages by occupation are as of 2017 provided by the BLS and imputed where necessary. Forecast employment growth uses national projections from the Bureau of Labor Statistics adapted for regional growth patterns. Occupation unemployment figures are imputed by Chmura.

Geographic Distribution

The below maps illustrate the ZCTA-level distribution of employed Licensed Practical and Licensed Vocational Nurses in the MSJC. Employment is shown by place of work and by residence.

Occupation Concentration by Place of Work for Licensed Practical and Licensed Vocational Nurses



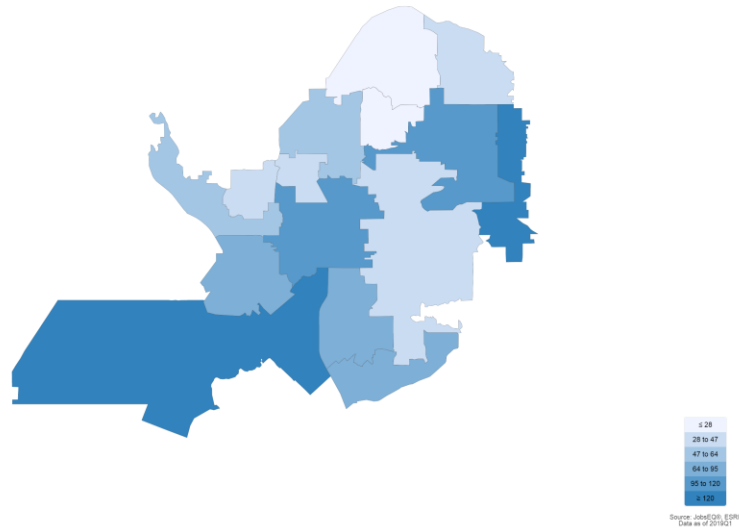
Top ZCTAs by Place of Work for Licensed Practical and Licensed Vocational Nurses, 2019Q1

Region	Employment
ZCTA 92562	134
ZCTA 92543	111
ZCTA 92545	79
ZCTA 92586	74
ZCTA 92591	53
ZCTA 92563	44
ZCTA 92595	39
ZCTA 92582	13
ZCTA 92585	11
ZCTA 92584	9

Source: JobsEQ®

Occupation employment data are estimated via industry employment data and the industry/occupation mix. Industry employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and currently updated through 2018Q3, imputed where necessary with preliminary estimates updated to 2019Q1. Occupation by residence data are derived from the same in addition to commuting pattern data.

Occupation Concentration by Place of Residence for Licensed Practical and Licensed Vocational Nurses



Top ZCTAs by Place of Residence for Licensed Practical and Licensed Vocational Nurses, 2019Q1

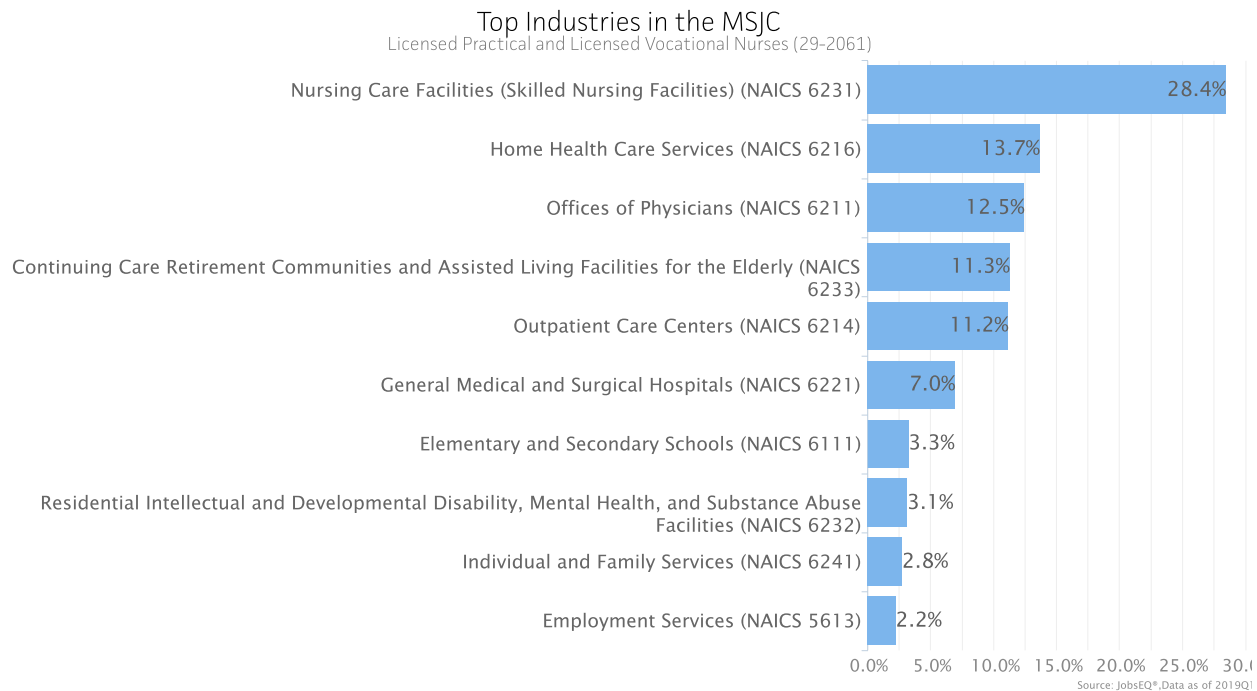
Region	Employment
ZCTA 92543	199
ZCTA 92562	121
ZCTA 92584	99
ZCTA 92545	95
ZCTA 92563	85
ZCTA 92591	68
ZCTA 92595	65
ZCTA 92585	54
ZCTA 92532	48
ZCTA 92582	41

Source: JobsEQ®

Occupation employment data are estimated via industry employment data and the industry/occupation mix. Industry employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and currently updated through 2018Q3, imputed where necessary with preliminary estimates updated to 2019Q1. Occupation by residence data are derived from the same in addition to commuting pattern data.

Employment by Industry

The following chart and table illustrate the industries in the MSJC which most employ Licensed Practical and Licensed Vocational Nurses. The single industry most employing this occupation in the region is Nursing Care Facilities (Skilled Nursing Facilities), NAICS 6231. This industry employs 166 Licensed Practical and Licensed Vocational Nurses—employment which is expected to increase by 13 jobs over the next ten years; furthermore, 120 additional new workers in this occupation will be needed for this industry due to separation demand, that is, to replace workers in this occupation and industry that retire or move into a different occupation.



Occupation employment data are estimated via industry employment data and the industry/occupation mix. Industry employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and currently updated through 2018Q3, imputed where necessary with preliminary estimates updated to 2019Q1.

Top Industry Distribution for Licensed Practical and Licensed Vocational Nurses (29-2061) in MSJC

NAICS Code	Industry Title	Current Occupation Employment	10-Year Sep Demand	10-Year Growth Demand	10-Year Total Demand
6231	Nursing Care Facilities (Skilled Nursing Facilities)	166	120	13	134
6216	Home Health Care Services	80	69	43	113
6211	Offices of Physicians	73	57	19	77
6233	Continuing Care Retirement Communities and Assisted Living Facilities for the Elderly	66	54	26	80
6214	Outpatient Care Centers	66	55	28	83
6221	General Medical and Surgical Hospitals	41	27	-4	23
6111	Elementary and Secondary Schools	19	14	2	16
6232	Residential Intellectual and Developmental Disability, Mental Health, and Substance Abuse Facilities	18	15	6	21
6241	Individual and Family Services	16	13	6	20
5613	Employment Services	13	10	2	12
6222	Psychiatric and Substance Abuse Hospitals	4	3	1	4

Top Industry Distribution for Licensed Practical and Licensed Vocational Nurses (29-2061) in MSJC

NAICS Code	Industry Title	Current Occupation Employment	10-Year Sep Demand	10-Year Growth Demand	10-Year Total Demand
6213	Offices of Other Health Practitioners	3	3	1	4
	-All Others-	19	14	3	17

Source: JobsEQ®

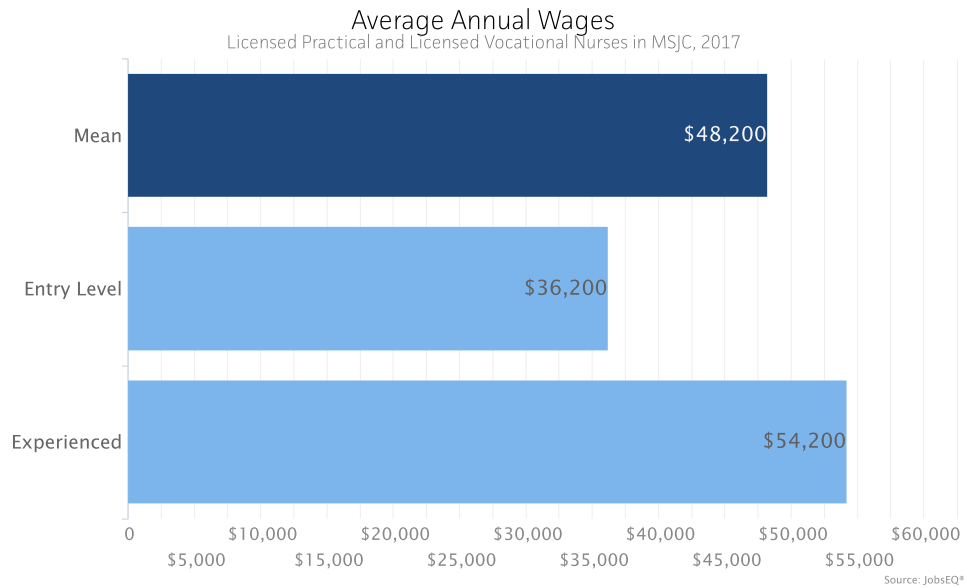
Data as of 2019Q1 except wages which are as of 2017. Note that occupation-by-industry wages represent adjusted national data and may not be consistent with regional, all-industry occupation wages shown elsewhere in JobsEQ.

Note: Figures may not sum due to rounding.

Occupation employment data are estimated via industry employment data and the industry/occupation mix. Industry employment data are derived from the Quarterly Census of Employment and Wages, provided by the Bureau of Labor Statistics and currently updated through 2018Q3, imputed where necessary with preliminary estimates updated to 2019Q1. Forecast employment growth uses national projections from the Bureau of Labor Statistics adapted for regional growth patterns.

Wages

The average (mean) annual wage for Licensed Practical and Licensed Vocational Nurses was \$48,200 in the MSJC as of 2017. For the same year, average entry level wages were approximately \$36,200 compared to an average of \$54,200 for experienced workers.



Occupation wages (mean, median, and percentiles) are as of 2017 provided by the BLS, modified and imputed by Chmura where necessary. Entry-level and experienced wages are derived from these source data, computed by Chmura.

Education Profile

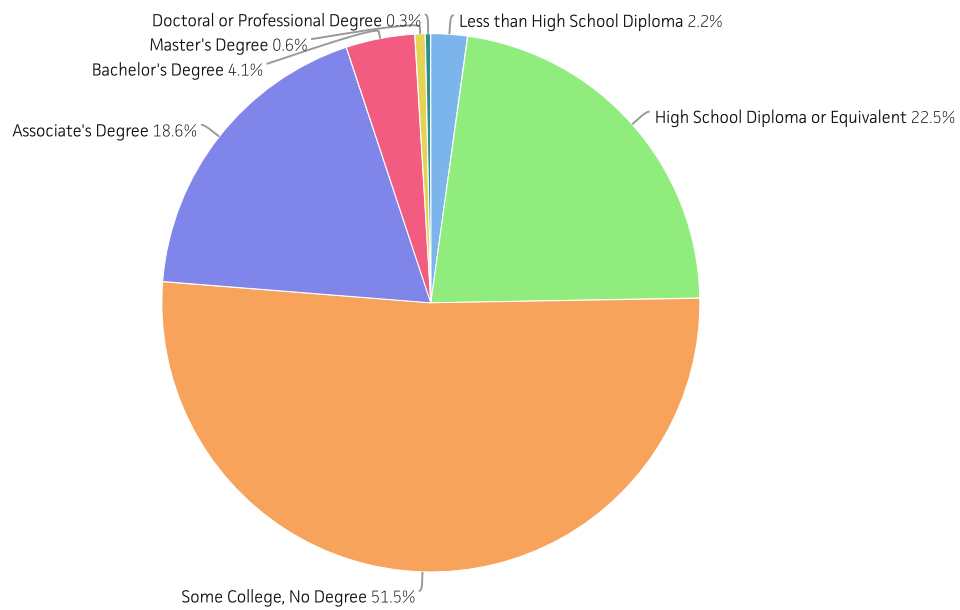
Typical education and training requirements for Licensed Practical and Licensed Vocational Nurses are described below.

Education and Training Requirements

Typical Entry-Level Education:	Postsecondary non-degree award
Previous Work Experience:	None
Typical On-the-Job Training:	None

Source: JobsEQ®

Educational Attainment Profile



Source: JobsEQ®

Education and training requirements are from the Bureau of Labor Statistics (BLS); educational attainment mix are regional data modeled by Chmura using Census educational attainment data projected to 2019Q1 along with source data from the BLS.

Awards

No postsecondary program awards were granted by postsecondary institutions located in the MSJC in the 2017 academic year in programs identified as providing training for Licensed Practical and Licensed Vocational Nurses (for further details, see the source note).

Awards data are per the National Center for Education Statistics (NCES) and JobsEQ for the 2017 academic year. Any programs shown here have been identified as being linked with the occupation being analyzed. Other existing programs may also provide training in the region for this occupation but have not been so identified by the program-occupation crosswalk (see the FAQ section at the end of this report for more details). Furthermore, any programs shown here reflect only data reported to the NCES; reporting is required of all schools participating in any federal finance assistance program authorized by Title IV of the Higher Education Act of 1965, as amended—other training providers in the region that do not report data to the NCES are not reflected in the above.

Apprenticeships

The apprenticeable specialties associated with this occupation are:

Rapids Code	Rapids Title
0837	Nurse, Licensed Practical

Source: [JobsEQ®](#)

Apprenticeable occupations are identified through the Department of Labor's Registered Apprenticeship program.

Region Definition

MSJC is defined as the following zip code tabulation areas:

ZCTA 92532

ZCTA 92543

ZCTA 92545

ZCTA 92548

ZCTA 92562

ZCTA 92563

ZCTA 92567

ZCTA 92582

ZCTA 92584

ZCTA 92585

ZCTA 92586

ZCTA 92587

ZCTA 92591

ZCTA 92595

ZCTA 92596

FAQ

What is SOC?

The Standard Occupational Classification system (SOC) is used to classify workers into occupational categories. All workers are classified into one of over 840 occupations according to their occupational definition. To facilitate classification, occupations are combined to form 23 major groups, 97 minor groups, and 461 occupation groups. Each occupation group includes detailed occupations requiring similar job duties, skills, education, or experience.

What is a location quotient?

A location quotient (LQ) is a measurement of concentration in comparison to the nation. An LQ of 1.00 indicates a region has the same concentration of an occupation (or industry) as the nation. An LQ of 2.00 would mean the region has twice the expected employment compared to the nation and an LQ of 0.50 would mean the region has half the expected employment in comparison to the nation.

What is training concentration?

The training concentration analysis compares local postsecondary training output compared to the national norm. Let's consider registered nurses as an example. If in the nation, one RN award is granted for every ten RNs employed, that 1:10 ratio is the national norm. If in your region your schools also grant one RN award for every ten RNs employed, then your region will be right at the national norm, or we say at 100% of the national norm which is termed a 100% training concentration. If your region grants two RN awards for every ten employed, your region would be at twice the national norm or have a 200% training concentration. Similarly, if your region grants one RN award for every twenty employed, your region would be at half the national norm or have a 50% training concentration.

What is the program-to-occupation crosswalk?

Training programs are classified according to the Classification of Instructional Programs (CIP codes). For relating training programs, this report uses a modified version of the CIP to SOC crosswalk from the National Center for Education Statistics (NCES). While this is a very helpful crosswalk for estimating occupation production from training program awards data, the crosswalk is neither perfect nor comprehensive. Indeed, it is hard to imagine such a crosswalk being perfect since many training program graduates for one reason or another do not end up employed in occupations that are most related to the training program from which they graduated. Therefore, the education program analyses should be considered in this light.

As an example of the many scenarios that may unfold, consider a journalism degree that crosswalks into three occupations: editors, writers, and postsecondary communications teachers. Graduates with a journalism degree may get a job in one of these occupations—and that may be the most-likely scenario—but a good number of these graduates may get a job in a different occupation altogether (the job may be somewhat related, such as a reporter, or the job may be totally unrelated, such as a real estate agent). Furthermore, a graduate may stay in school or go back to school for a degree that will lead to other occupation possibilities. Still another possibility includes the graduate not entering the labor market (maybe being unemployed, being a non-participant, or moving to another region).

What is separation demand?

Separation demand is the number of jobs required due to separations—labor force exits (including retirements) and turnover resulting from workers moving from one occupation into another. Note that separation demand does not include all turnover—it does not include when workers stay in the same occupation but switch employers. The total projected demand for an occupation is the sum of the separation demand and the growth demand (which is the increase or decrease of jobs in an occupation expected due to expansion or contraction of the overall number of jobs in that occupation).

What is NAICS?

The North American Industry Classification System (NAICS) is used to classify business establishments according to the type of economic activity. The NAICS Code comprises six levels, from the “all industry” level to the 6-digit level. The first two digits define the top level category, known as the “sector,” which is the level examined in this report.

About This Report

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