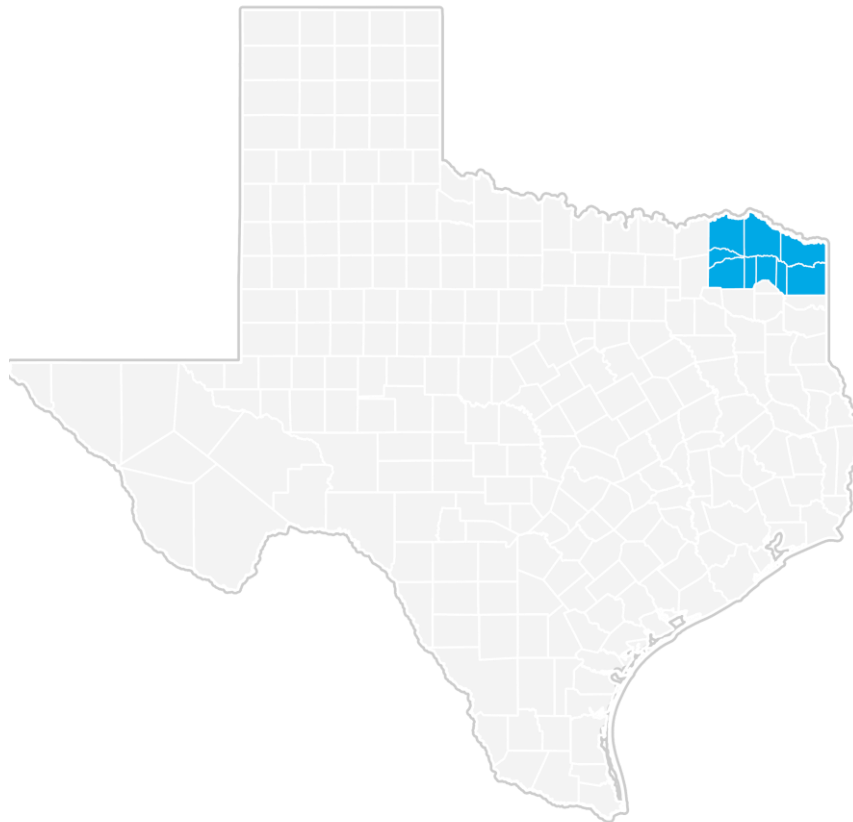


**Occupation Report for Inspectors, Testers,  
Sorters, Samplers, and Weighers  
Workforce Solutions Northeast Texas**



<b>DEFINITION OF INSPECTORS, TESTERS, SORTERS, SAMPLERS, AND WEIGHERS, SOC 51-9061</b> .....	<b>3</b>
<b>OCCUPATION SNAPSHOT</b> .....	<b>3</b>
<b>GEOGRAPHIC DISTRIBUTION</b> .....	<b>4</b>
<b>EMPLOYMENT BY INDUSTRY</b> .....	<b>5</b>
<b>WAGES</b> .....	<b>7</b>
<b>EDUCATION PROFILE</b> .....	<b>8</b>
<b>AWARDS</b> .....	<b>9</b>
<b>APPRENTICESHIPS</b> .....	<b>10</b>
<b>CRC PROFILE</b> .....	<b>10</b>
<b>REGION DEFINITION</b> .....	<b>12</b>
<b>FAQ</b> .....	<b>13</b>

# Definition of Inspectors, Testers, Sorters, Samplers, and Weighers, SOC 51-9061

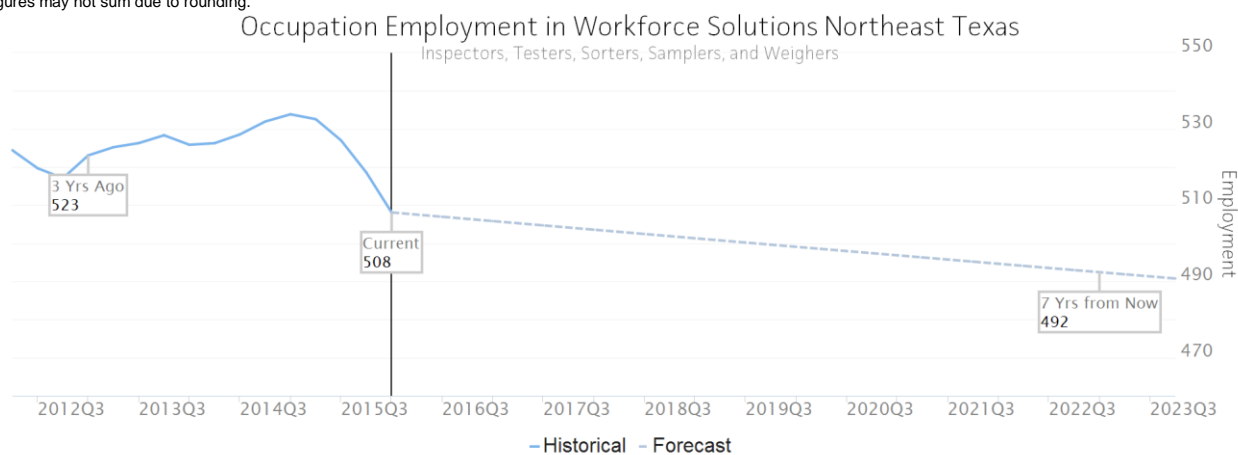
Inspect, test, sort, sample, or weigh nonagricultural raw materials or processed, machined, fabricated, or assembled parts or products for defects, wear, and deviations from specifications. May use precision measuring instruments and complex test equipment.

## Occupation Snapshot

As of 2016Q1, total employment for Inspectors, Testers, Sorters, Samplers, and Weighers in the Workforce Solutions Northeast Texas was 508. Over the past three years, this occupation shed 15 jobs in the region and is expected to decrease by 16 jobs over the next seven years, or at an annual average rate of -0.4%.

Occupation Snapshot of Inspectors, Testers, Sorters, Samplers, and Weighers in Workforce Solutions Northeast Texas									
Current					Historical		Forecast		
Four Quarters Ending with 2016q1			2016q1		Total Change over the Last 3 Years	Avg Ann % Chg in Empl 2013q1-2016q1	Over the Next 7 Years		
Empl	Avg. Annual Wages <sup>1</sup>	Location Quotient	Unempl	Unempl Rate	Empl	Workforce Solutions Northeast Texas	Total Repl Demand	Total Growth Demand	Avg. Annual Growth Percent
508	\$30,700	1.26	37	6.9%	-15	-1.0%	93	-16	-0.4%

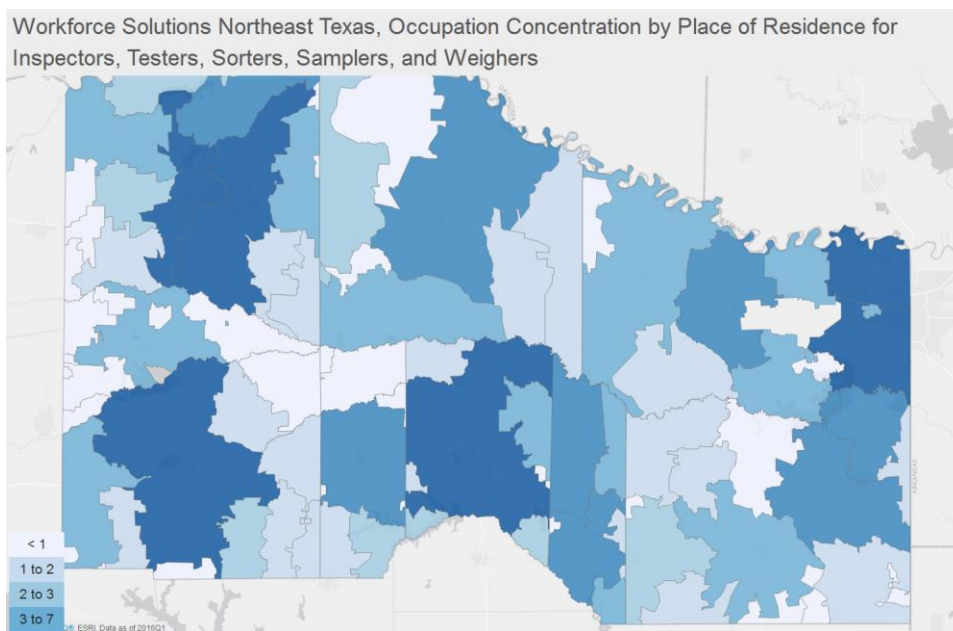
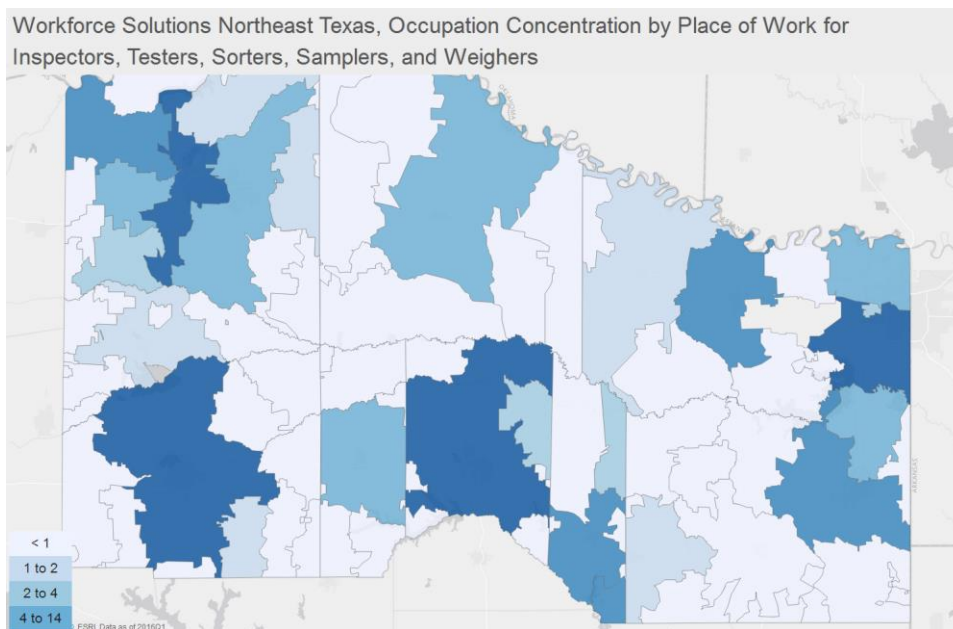
Source: JobsEQ®  
 Data as of 2016Q1 unless noted otherwise  
 Note: Figures may not sum due to rounding.



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 2015Q3, imputed where necessary with preliminary estimates updated to 2016Q1. Wages by occupation are as of 2014 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

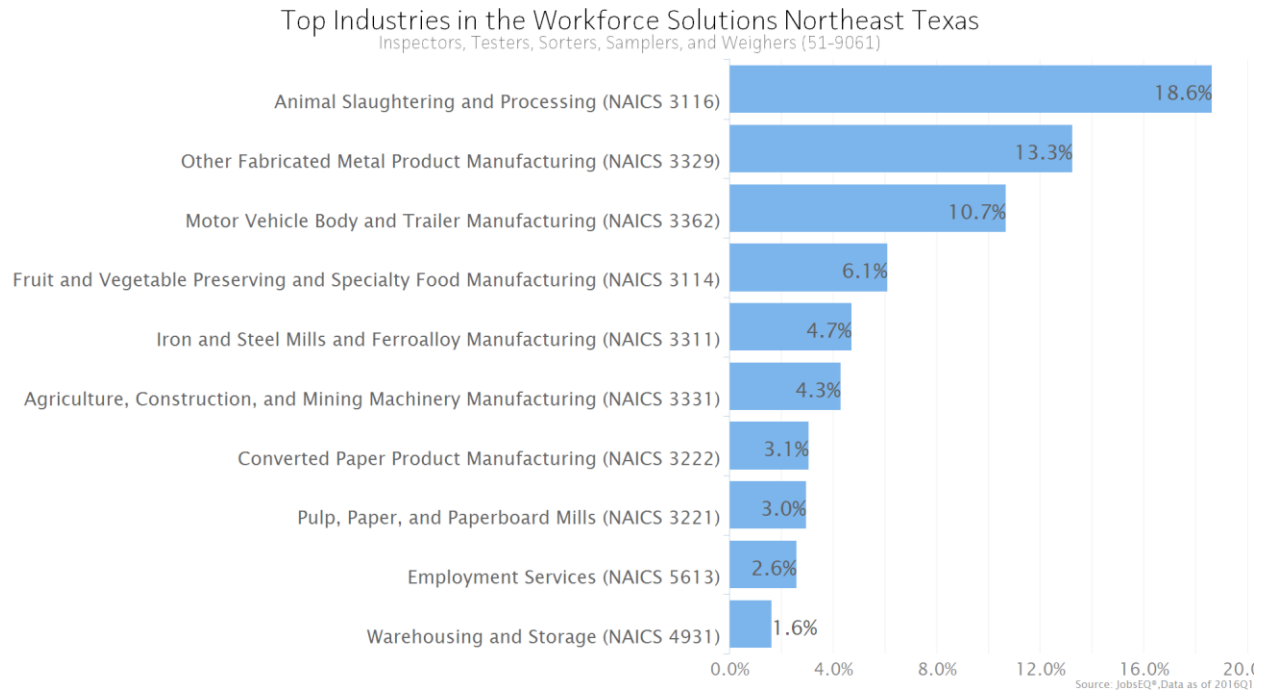
The below maps illustrate the ZCTA-level distribution of employed Inspectors, Testers, Sorters, Samplers, and Weighers in the Workforce Solutions Northeast Texas. Employment is shown by place of work and by residence.



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 2015Q3, imputed where necessary with preliminary estimates updated to 2016Q1. 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 Workforce Solutions Northeast Texas which most employ Inspectors, Testers, Sorters, Samplers, and Weighers. The single industry most employing this occupation in the region is Animal Slaughtering and Processing, NAICS 3116. This industry employs 95 Inspectors, Testers, Sorters, Samplers, and Weighers—employment which is expected to decrease by 3 jobs over the next ten years; furthermore, 25 additional new workers in this occupation will be needed for this industry due to replacement 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 2015Q3, imputed where necessary with preliminary estimates updated to 2016Q1.

Top Industry Distribution for Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061) in Workforce Solutions Northeast Texas					
NAICS Code	Industry Title	Current Occupation Employment	10-Year Repl Demand	10-Year Growth Demand	10-Year Total Demand
3116	Animal Slaughtering and Processing	95	25	-3	21
3329	Other Fabricated Metal Product Manufacturing	67	18	-1	17
3362	Motor Vehicle Body and Trailer Manufacturing	54	14	-3	11
3114	Fruit and Vegetable Preserving and Specialty Food Manufacturing	31	8	-3	5
3331	Agriculture, Construction, and Mining Machinery Manufacturing	22	6	1	6
3311	Iron and Steel Mills and Ferroalloy Manufacturing	24	6	-2	4
5613	Employment Services	13	4	1	5
3222	Converted Paper Product Manufacturing	16	4	-2	2
3221	Pulp, Paper, and Paperboard Mills	15	4	-4	0
4931	Warehousing and Storage	8	2	0	2
3219	Other Wood Product Manufacturing	8	2	0	2
3363	Motor Vehicle Parts Manufacturing	7	2	-1	1
3324	Boiler, Tank, and Shipping Container Manufacturing	6	2	0	2

**Top Industry Distribution for Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061) in Workforce Solutions Northeast Texas**

<b>NAICS Code</b>	<b>Industry Title</b>	<b>Current Occupation Employment</b>	<b>10-Year Repl Demand</b>	<b>10-Year Growth Demand</b>	<b>10-Year Total Demand</b>
4881	Support Activities for Air Transportation	6	2	0	2
3327	Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing	6	2	0	1
3254	Pharmaceutical and Medicine Manufacturing	5	1	0	1
3115	Dairy Product Manufacturing	5	1	0	1
3211	Sawmills and Wood Preservation	5	1	0	1
3328	Coating, Engraving, Heat Treating, and Allied Activities	5	1	0	1
3371	Household and Institutional Furniture and Kitchen Cabinet Manufacturing	5	1	-1	1
	-All Others-	105	28	-4	24

Source: JobsEQ®

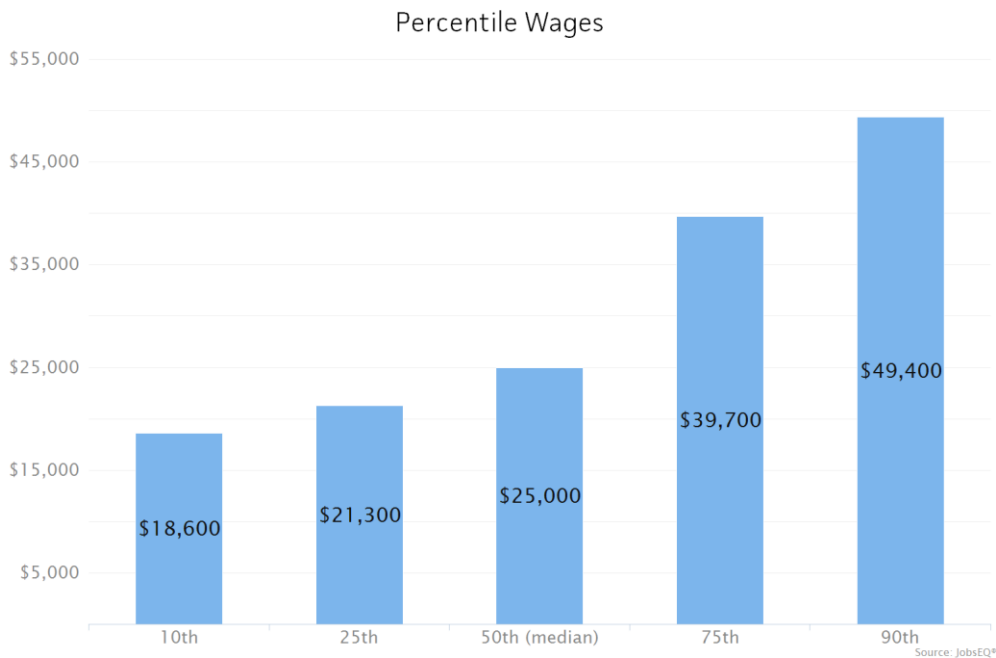
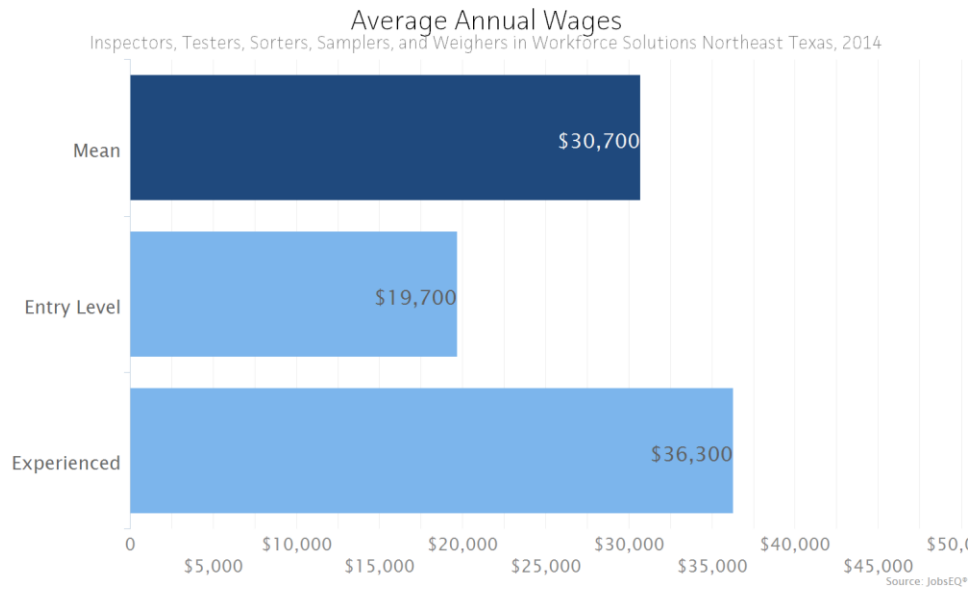
Data as of 2016Q1 except wages which are as of 2014. Note that occupation-by-industry wages represent adjusted national data and may not be consistent with regional, all-industry occupation wages shown elsewhere in JobsEQ.

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 2015Q3, imputed where necessary with preliminary estimates updated to 2016Q1. Forecast employment growth uses national projections from the Bureau of Labor Statistics adapted for regional growth patterns.

# Wages

The average (mean) annual wage for Inspectors, Testers, Sorters, Samplers, and Weighers was \$30,700 in the Workforce Solutions Northeast Texas as of 2014. For the same year, average entry level wages were approximately \$19,700 compared to an average of \$36,300 for experienced workers.



Occupation wages (mean, median, and percentiles) are as of 2014 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.

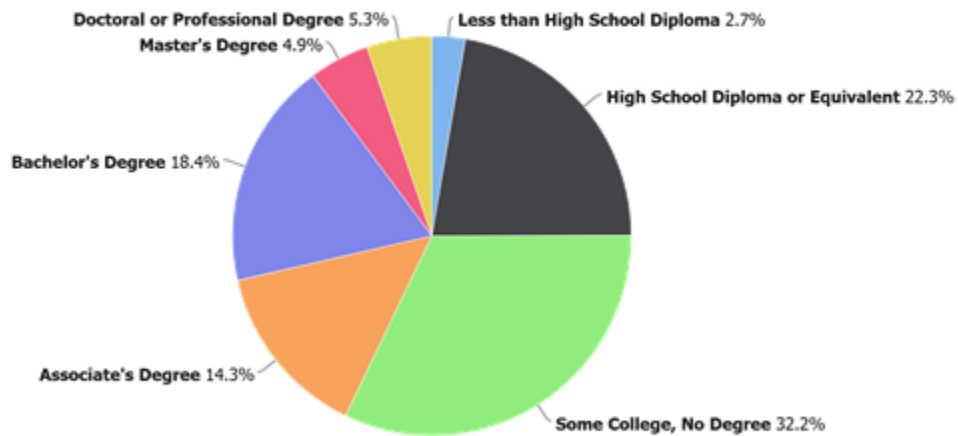
# Education Profile

Typical education and training requirements for Inspectors, Testers, Sorters, Samplers, and Weighers are described below.

Education and Training Requirements	
Typical Entry-Level Education:	High school diploma or equivalent
Previous Work Experience:	None
Typical On-the-Job Training:	Moderate-term on-the-job training

The below education mix for Inspectors, Testers, Sorters, Samplers, and Weighers is estimated from national survey data.

Educational Attainment Profile, Age 25+



Source: JobsEQ.

Education and training requirements as well as educational attainment mix data are from the Bureau of Labor Statistics.



# Awards

No postsecondary program awards were granted by postsecondary institutions located in the Workforce Solutions Northeast Texas in the 2014 academic year in programs identified as providing training for Inspectors, Testers, Sorters, Samplers, and Weighers (for further details, see the source note).

Awards data are per the National Center for Education Statistics (NCES) and JobsEQ for the 2014 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
0004	Airplane Inspector
0059	Cable Tester
0061	Complaint Inspector
0093	Diesel-Engine Tester
0183	Experimental Assembler
0239	Hydrometer Calibrator
0380	Inspector, Outside Production
0424	Inspector, Precision
0429	Rubber Tester
0468	Radiographer
0489	Thermometer Tester
0570	Electronics Tester
0572	Testing-and-Regulating Technician
0636	Inspector, Set-Up and Lay-Out
0638	Automobile-Repair-Service Estimator
0687	Relay Tester
0697	Inspector, Metal Fabricating
0792	Electric-Meter Tester
0805	Trouble Locator, Test Desk
0881	Automobile Tester
0905	Electric-Distribution Checker
0919	X-Ray-Equipment Tester
0936	Quality-Control Inspector
0959	Operational Test Mechanic
0968	Inspector, Electromechanical
0984	Grader
1031	Calibrator, Military (Instruments and Apparatus)

Source: JobsEQ®

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

## CRC Profile

AM	AT	L	LI	OB	RI	TW	W
<b>51-9061.01 - Materials Inspectors</b>							
4	3	3	4	4	4	4	3
<b>51-9061.02 - Mechanical Inspectors</b>							
3	n/a	n/a	4	n/a	4	3	n/a

AM	AT	L	LI	OB	RI	TW	W
<b>51-9061.03 - Precision Devices Inspectors and Testers</b>							
4	5	2	3	4	3	3	2
<b>51-9061.04 - Electrical and Electronic Inspectors and Testers</b>							
5	4	4	4	4	4	3	3
<b>51-9061.05 - Production Inspectors, Testers, Graders, Sorters, Samplers, Weighers</b>							
4	3	4	4	4	4	4	3

AM – Applied Mathematics  
AT – Applied Technology  
L – Listening  
LI – Locating Information  
OB – Observation  
RI – Reading for Information  
TW – Teamwork  
W – Writing

Average skill level requirements are based on ACT WorkKeys®.

# Region Definition

Workforce Solutions Northeast Texas is defined as the following counties: Bowie County, Texas; Cass County, Texas; Delta County, Texas; Franklin County, Texas; Hopkins County, Texas; Lamar County, Texas; Morris County, Texas; Red River County, Texas; Titus County, Texas

# 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 replacement demand?

Replacement demand is the number of jobs required due to replacements—retirements and turnover resulting from workers moving from one occupation into another. Note that replacement demand does not include all turnover—it does not include when workers stay in the same occupation but switch employers. The replacement demand shown in this report may also be understated; thus, it can be taken to be a minimum measure of the number of workers who will need to be trained for the occupation due to replacements. The total projected demand for an occupation is the sum of the replacement 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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