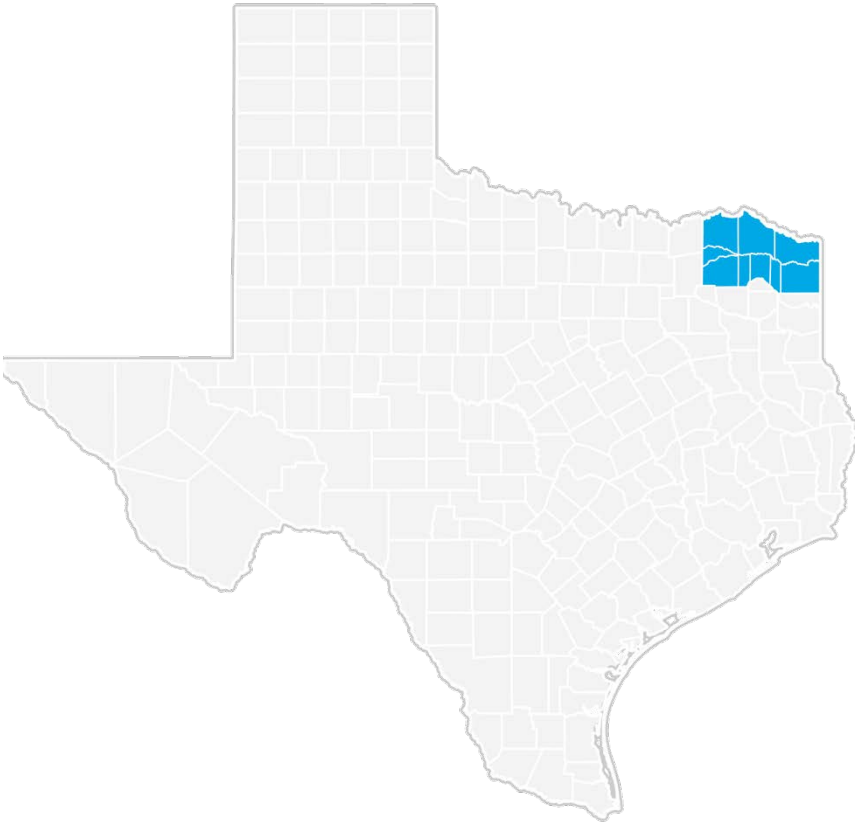


**Occupation Report for Emergency Medical  
Technicians and Paramedics  
Workforce Solutions Northeast Texas**



**DEFINITION OF EMERGENCY MEDICAL TECHNICIANS AND PARAMEDICS, SOC 29-2041 .....3**  
**OCCUPATION SNAPSHOT .....3**  
**GEOGRAPHIC DISTRIBUTION .....4**  
**EMPLOYMENT BY INDUSTRY .....5**  
**WAGES .....6**  
**EDUCATION PROFILE .....7**  
**AWARDS .....8**  
**TRAINING CONCENTRATION.....9**  
**APPRENTICESHIPS .....10**  
**CRC PROFILE .....10**  
**REGION DEFINITION .....11**  
**FAQ .....12**

# Definition of Emergency Medical Technicians and Paramedics, SOC 29-2041

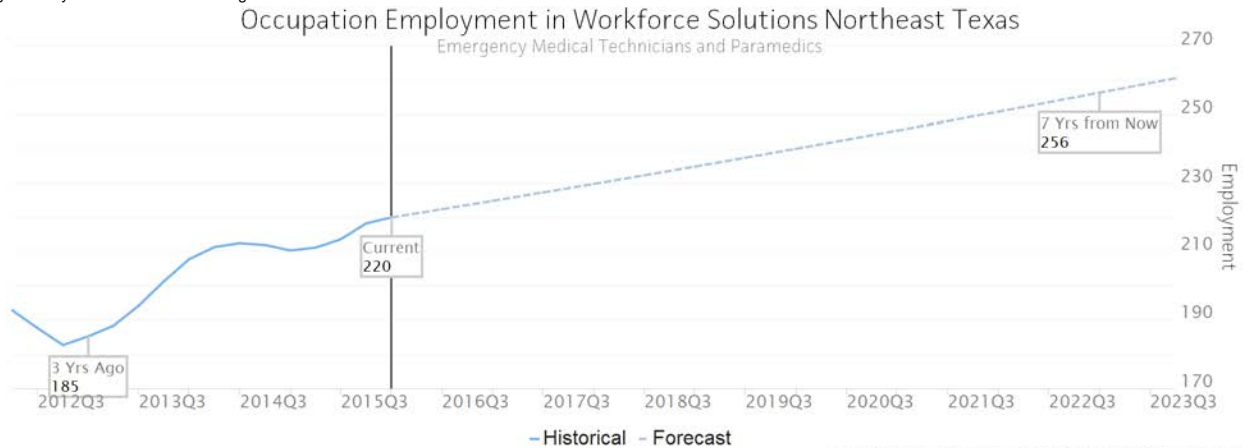
Assess injuries, administer emergency medical care, and extricate trapped individuals. Transport injured or sick persons to medical facilities.

## Occupation Snapshot

As of 2016Q1, total employment for Emergency Medical Technicians and Paramedics in the Workforce Solutions Northeast Texas was 220. Over the past three years, this occupation added 35 jobs in the region and is expected to increase by 36 jobs over the next seven years, or at an annual average rate of 2.2%.

Occupation Snapshot of Emergency Medical Technicians and Paramedics 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
220	\$30,600	1.16	3	1.6%	35	5.9%	25	36	2.2%

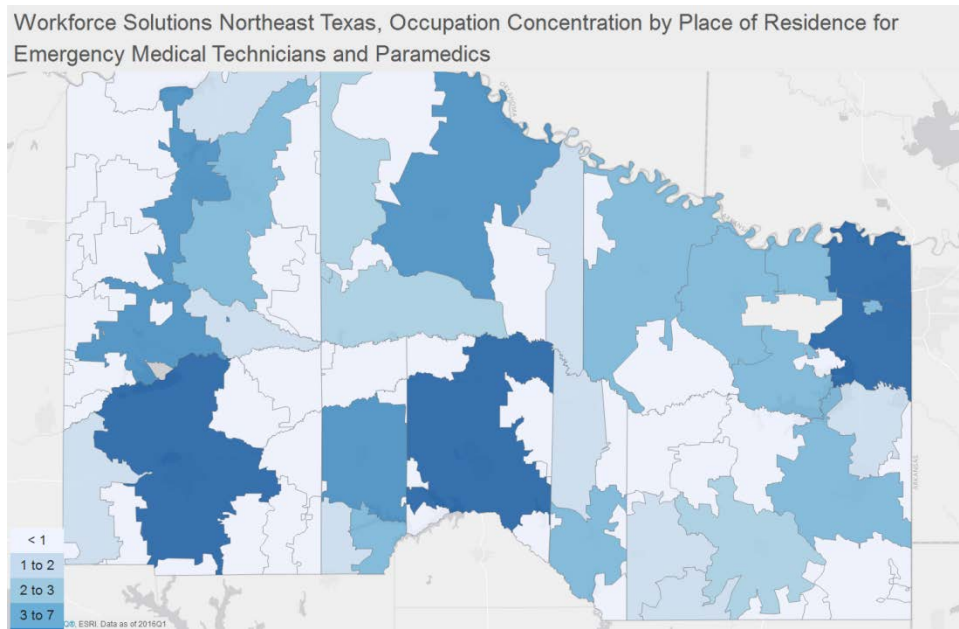
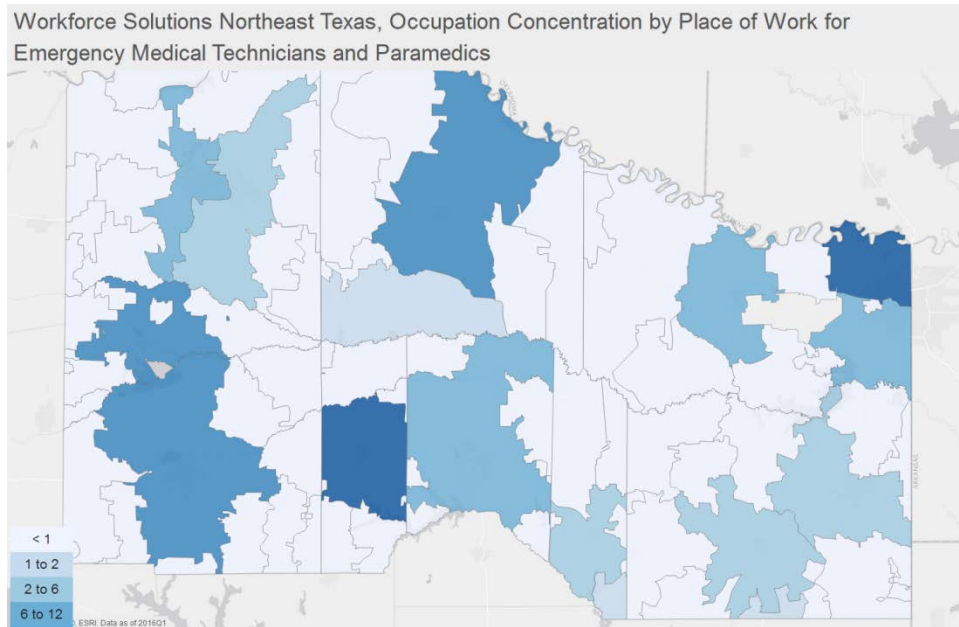
Source: JobsEQ®  
 Data as of 2016Q1 unless noted otherwise  
 Note: Figures may not sum due to rounding.



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

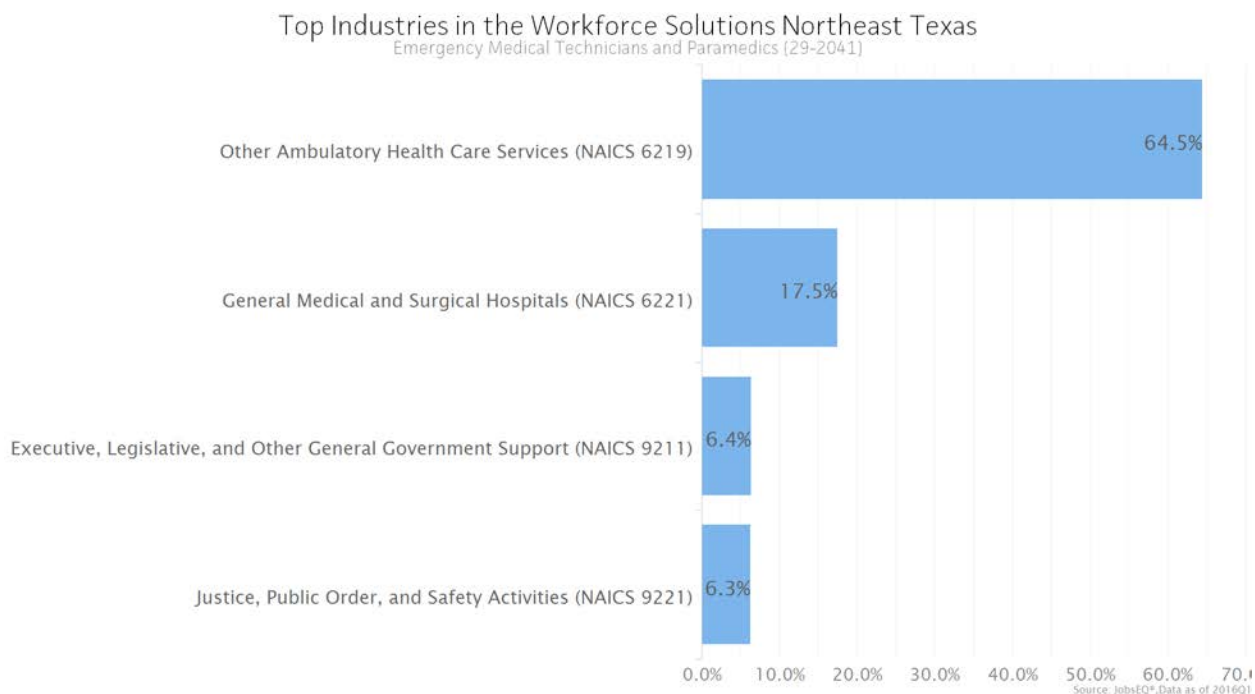
The below maps illustrate the ZCTA-level distribution of employed Emergency Medical Technicians and Paramedics in the Workforce Solutions Northeast Texas. Employment is shown by place of work and by residence.



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 Emergency Medical Technicians and Paramedics. The single industry most employing this occupation in the region is Other Ambulatory Health Care Services, NAICS 6219. This industry employs 142 Emergency Medical Technicians and Paramedics—employment which is expected to increase by 52 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.

<b>Top Industry Distribution for Emergency Medical Technicians and Paramedics (29-2041) in Workforce Solutions Northeast Texas</b>					
<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>
6219	Other Ambulatory Health Care Services	142	25	52	77
6221	General Medical and Surgical Hospitals	38	6	0	6
9221	Justice, Public Order, and Safety Activities	14	2	0	2
9211	Executive, Legislative, and Other General Government Support	14	2	0	2
9231	Administration of Human Resource Programs	2	0	0	0
9251	Administration of Housing Programs, Urban Planning, and Community Development	2	0	0	0
6211	Offices of Physicians	1	0	0	0
	-All Others-	7	1	1	2

Source: JobsEQ®

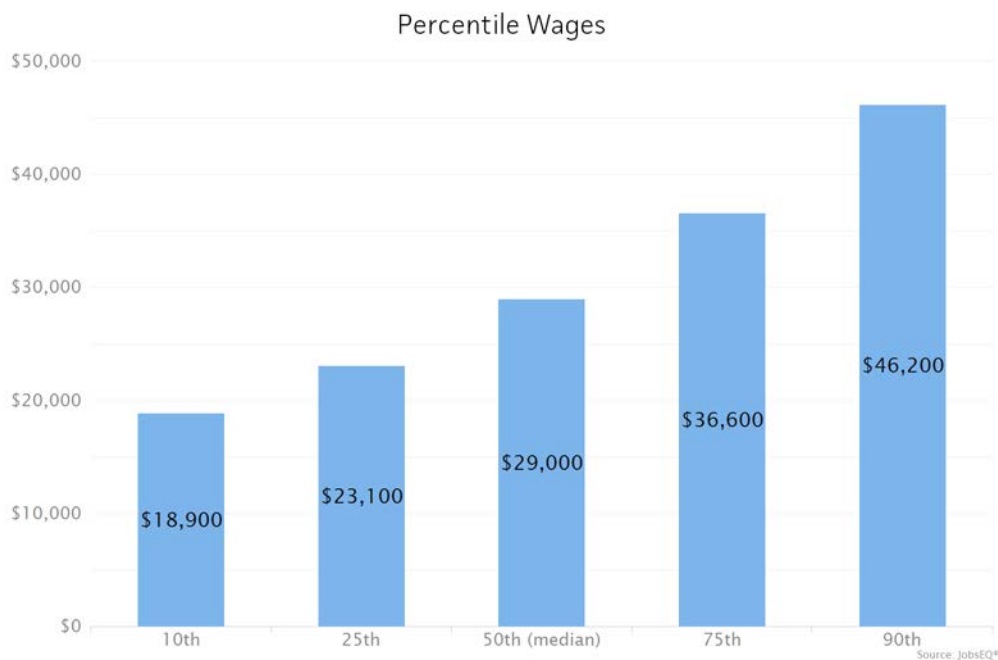
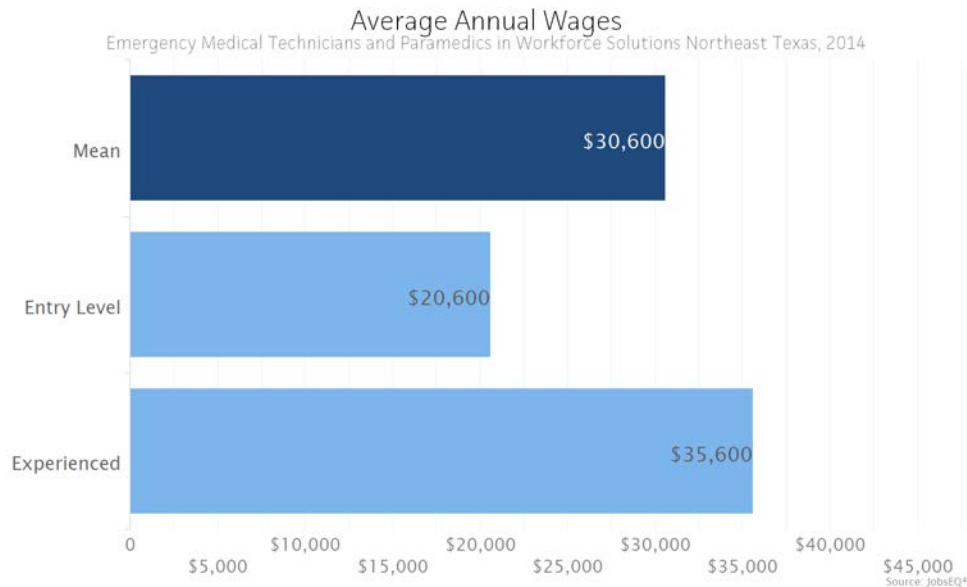
Data as of 2016Q1 except wages which are as of 2014. Note that occupation-by-industry wages represent adjusted national data and may not be consistent with regional, all-industry occupation wages shown elsewhere in JobsEQ.

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 Emergency Medical Technicians and Paramedics was \$30,600 in the Workforce Solutions Northeast Texas as of 2014. For the same year, average entry level wages were approximately \$20,600 compared to an average of \$35,600 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.

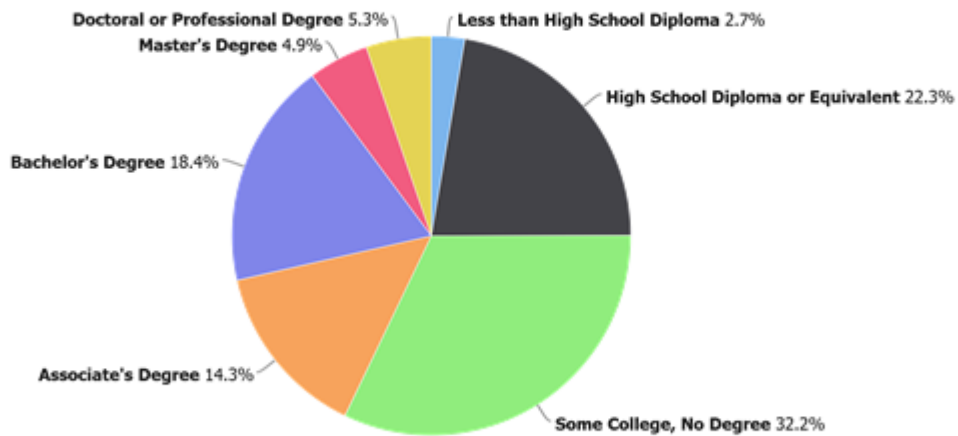
# Education Profile

Typical education and training requirements for Emergency Medical Technicians and Paramedics 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

The below education mix for Emergency Medical Technicians and Paramedics 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

The table below is a list of postsecondary program awards that were granted by postsecondary institutions located in the Workforce Solutions Northeast Texas in the 2014 academic year. These programs have been identified as providing training for Emergency Medical Technicians and Paramedics (for further details, see the source note).

Title/School	Annual Awards - Workforce Solutions Northeast Texas		
	Certificates and 2yr Degrees	4yr Degrees	Postgraduate Degrees
<b>51.0904 Emergency Medical Technology/Technician (EMT Paramedic)</b>			
Northeast Texas Community College	13	0	0
Paris Junior College	34	0	0
Texarkana College	11	0	0
<b>Total</b>			
Total	58	0	0

Data as of the 2013-2014 academic year

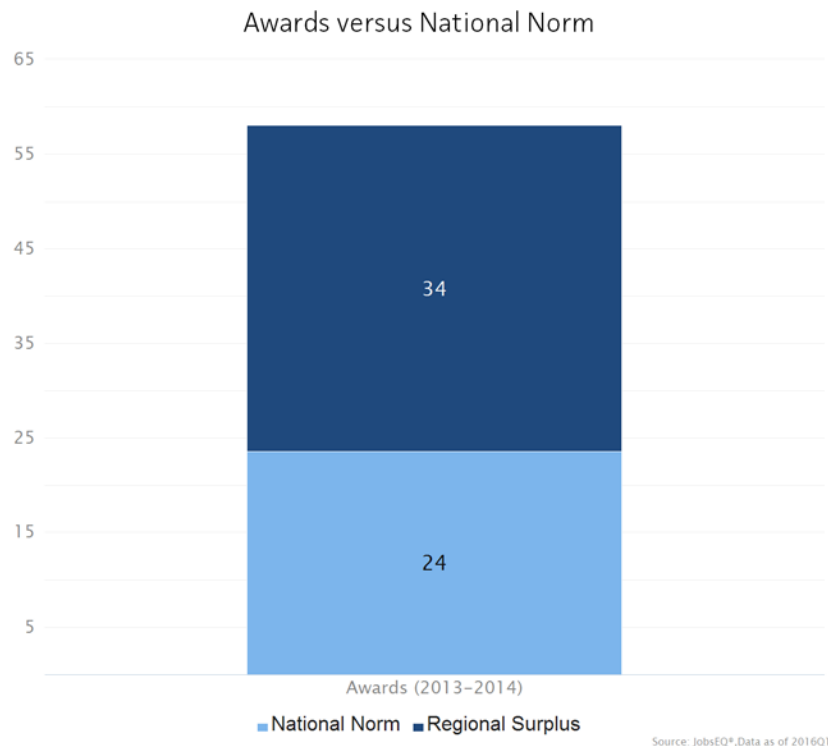
Awards data are per the National Center for Education Statistics (NCES) and JobsEQ for the 2014 academic year. Any programs shown here have been identified as being linked with the occupation being analyzed. Other existing programs may also provide training in the region for this occupation but have 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.



# Training Concentration

In the 2013-2014 academic year, it is estimated that postsecondary schools in the Workforce Solutions Northeast Texas granted awards for a potential 58 new Emergency Medical Technicians and Paramedics.<sup>1</sup> Given the size of this occupation in the region, this award output is above the national norm of 24 awards per year—put another way; it is at 246% of the national average.

Training concentrations above the national average can indicate that the region is an exporter of graduates for this occupation; in other words, some students may come from outside the region for this education and subsequently leave after the award to work outside the region. Training concentrations below the national average can indicate that the region is an importer of graduates for this occupation; in other words, some employers within the region who hire this occupation may need to hire workers who received this training outside of the region.



Awards data by occupation are estimates produced by JobsEQ and for the academic year 2013-2014.

---

<sup>1</sup> This figure may not match the total awards shown in the prior section since some of those awards may flow into more than one occupation.

# Apprenticeships

The apprenticeable specialties associated with this occupation are:

Rapids Code	Rapids Title
0543	Paramedic
0730	Emergency Medical Technician

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>29-2041.00 - Emergency Medical Technicians and Paramedics</b>							
4	n/a	4	5	5	5	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

This report and all data herein were produced by JobsEQ®, a product of Chmura Economics & Analytics. The information contained herein was obtained from sources we believe to be reliable. However, we cannot guarantee its accuracy and completeness.