

Report on Available Apprenticeships in Texas Program Year 2024



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Introduction

<u>Texas Labor Code §302.0191</u> states that the Texas Workforce Commission (TWC) must report on active apprenticeship programs in the state and make recommendations to expand the availability of apprenticeship programs in emerging and high-demand industries and occupations.

This report includes a description of the current apprenticeship landscape in Texas, an analysis of high demand industries and occupations, and an overview of active apprenticeship programs meeting workforce needs. This report will conclude with recommendations on how to expand apprenticeship programs in Texas.

The apprenticeship data used in this report is provided by US Department of Labor and reflects active Texas apprenticeships during program year 2024 (PY24). An active apprenticeship program is defined as active if it has at least one active apprenticeship participating in the program at the time of this report.

Industry projections and occupational staffing pattern data are sourced from the Texas Workforce Commission (TWC) Labor Market and Career Information. Industries are classified using the North American Industry Classification System (NAICS) and occupations are defined using the federal Standard Occupational Classification (SOC) system.

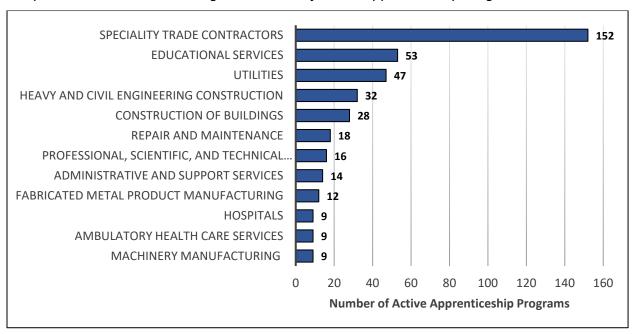
Available Apprenticeships in Texas

Active Apprenticeship Programs

At the time of this report, there are 863 active apprenticeship programs offering training in 48 industry sectors or subsectors¹. The industries represented range from construction and mining to education and real estate. A list of industries and the number of active programs is in Appendix A.

¹ For purposes of analysis, the Bureau of Labor and Statistics combines NAICS sectors into groupings called "supersectors." Supersectors contain sectors that are broken down further into subsectors. One way to envision this hierarchy is Supersector → Sector → Subsector.

Figure 1: Top 10 Industries with the Largest Numbers of Active Apprenticeship Programs

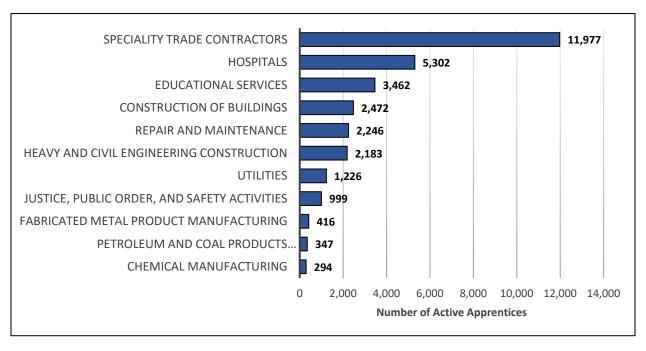


Specialty Trade Contractors (NAICS 238), which includes foundation, structure, and building exterior contractors; building equipment contractors; and building finishing contractors, make up almost 18% of the active apprenticeship programs in Texas followed by Educational Services (NAICS 611) and Utilities (NAICS 221)

Number of Active Apprentices

There are approximately 32,625 active apprentices in the state of Texas. Apprenticeship programs within the Specialty Trade Contractor, Hospital, and Educational Services industries contain over half of these individuals.

Figure 2: Top 10 Industries with the Largest Numbers of Active Apprentices



The full count of active apprentices and their programs can be found in Appendix B.

Projected Growth by Industry and Number of Apprentices per Industry

As detailed in the table below, there are active apprenticeship programs in Texas for a majority of the 25 industries projected to add the most jobs over the next ten years. Currently, only seven industries do not have active programs.

When reviewing the table, it is important to consider the current staffing of the industries listed. For example, "Food Services and Drinking Places" shows a 34.4% change by 2030 with five apprentices currently working within occupations such a fast food and restaurant cooks. In comparison, "Educational Services" shows a 13.6% growth with 3,462 apprentices currently working within occupations such as education administrators and elementary school teachers.

Table 1. Industries Projected to Add the Most Jobs from 2020-2030 and Number of Apprentices

Industry Title	Annual Average Employment 2020	Annual Average Employment 2030	Number Change 2020-2030	Percent Change 2020-2030	Number of Apprentices
Food Services and Drinking Places	962,426	1,293,835	331,409	34.4	5
Professional, Scientific, and Technical Services	761,785	965,920	204,135	26.8	132
Ambulatory Health Care Services	736,521	930,948	194,427	26.4	63
Educational Services	1,187,797	1,349,674	161,877	13.6	3,462
Administrative and Support Services	702,157	839,658	137,501	19.6	234
Specialty Trade Contractors	409,418	495,644	86,226	21.1	11,977
Hospitals	434,260	505,717	71,457	16.5	5,302
Social Assistance	215,931	286,083	70,152	32.5	256
Support Activities for Mining	106,210	160,913	54,703	51.5	30
Heavy and Civil Engineering Construction	162,794	211,602	48,808	30.0	2,183
Management of Companies and Enterprises	143,907	190,154	46,247	32.1	0
Accommodation	95,883	128,251	32,368	33.8	0
Insurance Carriers and Related Activities	190,411	222,417	32,006	16.8	111
Nursing and Residential Care Facilities	181,025	212,398	31,373	17.3	0
Personal and Laundry Services	102,628	132,955	30,327	29.6	13
Real Estate	155,027	185,085	30,058	19.4	1
Motor Vehicle and Parts Dealers	179,454	209,022	29,568	16.5	4

Industry Title	Annual Average Employment	Annual Average Employment	Number Change	Percent Change	Number of Apprentices
	2020	2030	2020-2030	2020-2030	7.66.0.000
Merchant	186,695	215,867	29,172	15.6	3
Wholesalers,					
Durable Goods					
Truck	137,998	167,096	29,098	21.1	38
Transportation					
Religious,	160,675	189,148	28,473	17.7	130
Grantmaking,					
Civic, Professional,					
and Similar					
Organizations					
Warehousing and	121,867	148,647	26,780	22.0	0
Storage					
Amusement,	84,567	110,846	26,279	31.1	0
Gambling, and					
Recreation					
Industries					
Repair and	128,190	153,310	25,120	19.6	2,246
Maintenance					
General	270,020	292,309	22,289	8.3	0
Merchandise					
Stores					
Couriers and	77,314	98,287	20,973	27.1	0
Messengers					

Locations of Apprenticeship Programs

Because of the vastness of our state—254 counties across 28 Workforce Development Areas (WDAs)—it is helpful to examine the locations of active apprenticeship programs to determine if they are meeting the needs of the state's emerging and in-demand industries and to consider ease of access for current and future apprentices.

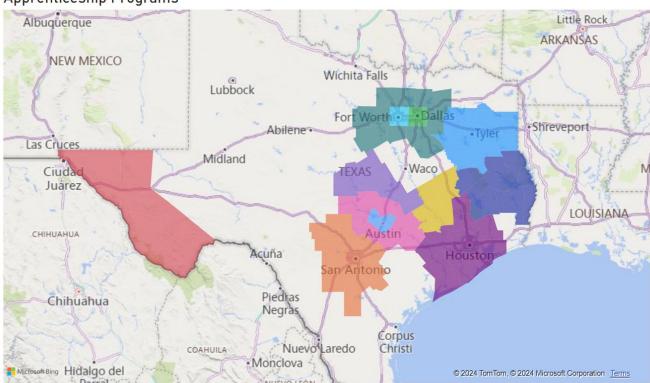
The following maps show the WDAs containing active apprenticeship programs for the five industries projected to add the most jobs from 2020 through 2030:

- Food Services and Drinking Places
- Professional, Technical, and Scientific Services
- Ambulatory Healthcare Services
- Educational Services
- Administrative and Support Services

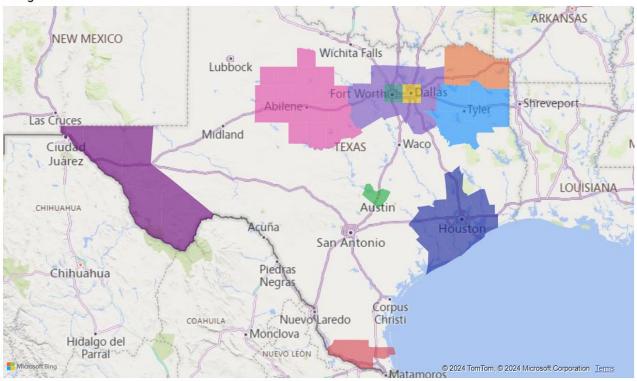
Workforce Development Areas with Food Service and Drinking Places Apprenticeship Programs



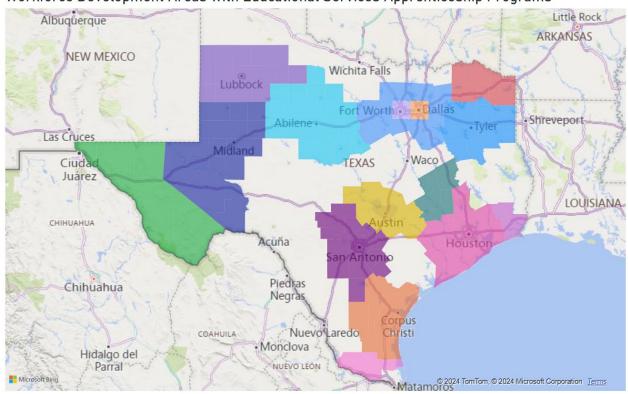
Workforce Development Areas with Professional, Scientific, and Technical Service Apprenticeship Programs



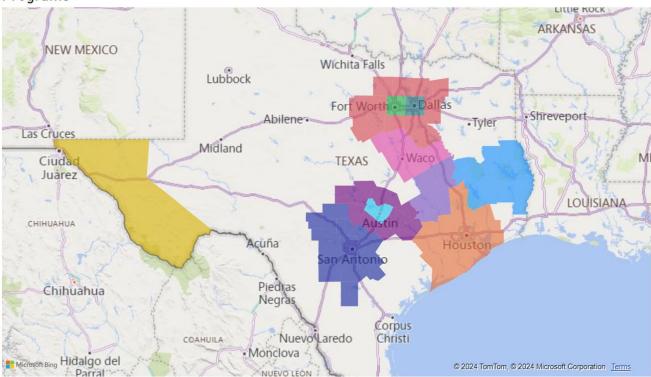
Workforce Development Areas with Ambulatory Health Care Services Apprenticeship Programs



Workforce Development Areas with Educational Services Apprenticeship Programs



Workforce Development Areas with Administrative and Support Services Apprenticeship Programs



The complete list of industries and the number of apprenticeship programs located in each WDA are in Appendix C.

Table 2: Apprenticeable Occupations with Active Apprenticeship Programs

The following table provides a portion of the occupations included in the staffing patterns² for the industries projected to add the most jobs from 2020-2030 (listed in <u>Table 1</u>). The occupations are ranked high to low by how many industry staffing patterns contain each occupation.

SOC	Occupational Title	Count of Top 25 industries with occupation in staffing pattern	Number of Apprenticeship Programs	Number of active apprentices
43-3031	Bookkeeping, Accounting, and Auditing Clerks	25	3	8
13-1071	Human Resources Specialists	25	2	9
49-9071	Maintenance and Repair Workers, General	25	6	166
43-9061	Office Clerks, General	25	0	0
43-6014	Secretaries and Administrative Assistants	25	0	0

² Staffing patterns are lists of occupations and the number of employees in each occupation within an industry.

SOC	Occupational Title	Count of Top 25 industries with occupation in staffing pattern	Number of Apprenticeship Programs	Number of active apprentices
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	24	1	1
11-1021	General and Operations Managers	23	0	0
13-1151	Training and Development Specialists	23	2	66
33-9032	Security Guards	22	0	0
43-5061	Production, Planning, and Expediting Clerks	19	4	30
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	18	1	1
43-3051	Payroll and Timekeeping Clerks	18	0	0
27-3031	Public Relations Specialists	18	0	0
43-5032	Dispatchers, Except Police, Fire, and Ambulance	17	1	1
41-1011	First-Line Supervisors of Retail Sales Workers	17	1	34
13-1041	Compliance Officers	16	0	0
53-3032	Heavy and Tractor- Trailer Truck Drivers	16	9	472
37-3011	Landscaping and Groundskeeping Workers	15	2	11
37-2012	Maids and Housekeeping Cleaners	15	0	0
43-9021	Data Entry Keyers	14	1	1
13-1111	Management Analysts	14	2	91
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	13	3	5
49-9099	Installation, Maintenance, and Repair Workers, All Other	13	0	0

SOC	Occupational Title	Count of Top 25 industries with occupation in staffing pattern	Number of Apprenticeship Programs	Number of active apprentices
49-3023	Automotive Service Technicians and Mechanics	12	11	2,019
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	12	6	154
49-9098	HelpersInstallation, Maintenance, and Repair Workers	12	0	0
49-9041	Industrial Machinery Mechanics	12	11	150
39-9032	Recreation Workers	12	0	0
35-2012	Cooks, Institution and Cafeteria	11	1	4
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	11	0	0
51-6011	Laundry and Dry- Cleaning Workers	11	0	0
49-9043	Maintenance Workers, Machinery	11	0	0
47-2141	Painters, Construction and Maintenance	11	10	104
53-7061	Cleaners of Vehicles and Equipment	10	1	23
47-2111	Electricians	10	97	7,605
27-1024	Graphic Designers	10	2	56
17-2112	Industrial Engineers	10	0	0
29-2061	Licensed Practical and Licensed Vocational Nurses	10	2	9
31-9092	Medical Assistants	10	7	123
43-6013	Medical Secretaries and Administrative Assistants	10	1	2
29-1141	Registered Nurses	10	6	3,851
21-1093	Social and Human Service Assistants	10	1	4
51-4121	Welders, Cutters, Solderers, and Brazers	10	12	418

The full table containing the 260 occupations included in the fastest growing industries is in Appendix D.

Conclusion and Recommendations

When measured in the context of numbers of active apprenticeship programs and apprentices within the state's fastest growing industries, Texas appears to be well poised to meet future labor market demands through the apprenticeship model. Industries within the Specialty Trade Contractors subsector, for example, have a long history of using the apprenticeship training model to create and maintain worker pipelines that ensure a consistent supply of highly skilled employees. Educational Services, on the other hand, is relatively new to the apprenticeship model but shows promise in growth. At the time of this report, numerous local education agencies are turning to the apprenticeship model to address current shortages. This growth gives evidence that industries not typically associated with apprenticeships are beginning to see the benefits of a "earn while you learn" model.

In contrast, some industries—especially those projected to grow the fastest—do not appear to have the numbers of active programs and apprentices to meet future demands. Food Service and Drinking Places, for example, is projected to grow the fastest through 2030, but currently there are only two active programs and five active apprentices contained within one WDA. Employers within this industry will continue to explore innovative approaches to hiring, training, and retaining workers. The apprenticeship training model is an approach that should be considered.

Through the state's <u>Texas Education Code Chapter 133</u> program, through federal initiatives, and through a state-funded model known as the Texas Industry Recognized Apprenticeship (TIRA) program, TWC will continue to support apprenticeship programs throughout Texas.

Recommendations for work in the expansion of apprenticeship programs to meet the employment needs of emerging and high-demand industries include the following:

- 1. Continue to promote and support work-based learning models, including the apprenticeship training model.
- Collaborate extensively with employers and other stakeholders to address training needs and to create or expand apprenticeship opportunities within emerging and high-demand industries.
- 3. Increase apprenticeship opportunities for high school students by implementing programs in which the first year of an apprenticeship can be completed while still enrolled in high school.

TWC will continue to work with new and existing programs to promote growth and innovation and to ensure successful, sustainable apprenticeship models that meet the labor market needs of a strong, vital, and growing Texas economy.

Appendix A: Active Apprenticeship Programs by Industry

3 Digit NAICS (Industry Super Sector)	NAICS Title	Number of Apprenticeship Programs
238	Specialty Trade Contractors	152
611	Educational Services	53
221	Utilities	47
237	Heavy and Civil Engineering Construction	32
236	Construction of Buildings	28
811	Repair and Maintenance	18
541	Professional, Scientific, and Technical Services	16
561	Administrative and Support Services	14
332	Fabricated Metal Product Manufacturing	12
333	Machinery Manufacturing	9
621	Ambulatory Health Care Services	9
622	Hospitals	9
325	Chemical Manufacturing	8
923	Administration of Human Resource Programs	7
624	Social Assistance	6
812	Personal and Laundry Services	6
813	Religious, Grantmaking, Civic, Professional, and Similar Organizations.	6
922	Justice, Public Order, and Safety Activities	6
327	Nonmetallic Mineral Product Manufacturing (4
213	Support Activities for Mining	3
324	Petroleum and Coal Products Manufacturing	3
326	Plastics and Rubber Products Manufacturing	3
336	Transportation Equipment Manufacturing	3
441	Motor Vehicle and Parts Dealers	3
484	Truck Transportation	3
518	Data Processing, Hosting, and Related Services	3
562	Waste Management and Remediation Services	3
334	Computer and Electronic Product Manufacturing	2
339	Miscellaneous Manufacturing	2
488	Support Activities for Transportation	2
524	Insurance Carriers and Related Activities	2
722	Food Services and Drinking Places	2
111	Crop Production	1
115	Animal Production	1
311	Food Manufacturing	1
331	Primary Metal Manufacturing	1
423	Merchant Wholesalers, Durable Goods	1
453	Miscellaneous Store Retailers	1
456	Health and Personal Care Retailers	1

3 Digit NAICS (Industry	NAICS Title	Number of
Super Sector)		Apprenticeship Programs
	Sporting Goods, Hobby, Musical Instrument, Book, and	
459	Miscellaneous Retailers	1
481	Air Transportation	1
483	Water Transportation	1
513	Publishing Industries	1
519	Other Information Services	1
522	Credit Intermediation and Related Activities	1
531	Real Estate	1
	Executive, Legislative, and Other General Government	
921	Support	1
924	Administration of Environmental Quality Programs	1

Appendix B: Active Apprentices by Industry

3 Digit NAICS (Industry Super Sector)	NAICS Title	# of Current Active Apprentices
238	Specialty Trade Contractors	11,977
622	Hospitals	5,302
611	Educational Services	3,462
236	Construction of Buildings	2,472
811	Repair and Maintenance	2,246
237	Heavy and Civil Engineering Construction	2,183
221	Utilities	1,226
922	Justice, Public Order, and Safety Activities	999
332	Fabricated Metal Product Manufacturing	416
324	Petroleum and Coal Products Manufacturing	347
325	Chemical Manufacturing	294
624	Social Assistance	256
561	Administrative and Support Services	234
541	Professional, Scientific, and Technical Services	132
813	Religious, Grantmaking, Civic, Professional, and Similar Organizations.	130
562	Waste Management and Remediation Services	123
524	Insurance Carriers and Related Activities	111
336	Transportation Equipment Manufacturing	85
453	Miscellaneous Store Retailers	81
333	Machinery Manufacturing	80
923	Administration of Human Resource Programs	73
621	Ambulatory Health Care Services	63
327	Nonmetallic Mineral Product Manufacturing (38
484	Truck Transportation	38
326	Plastics and Rubber Products Manufacturing	36
481	Air Transportation	31

3 Digit NAICS (Industry Super Sector)	NAICS Title	# of Current Active Apprentices
213	Support Activities for Mining	30
921	Executive, Legislative, and Other General Government	28
	Support	
488	Support Activities for Transportation	24
339	Miscellaneous Manufacturing	18
334	Computer and Electronic Product Manufacturing	16
518	Data Processing, Hosting, and Related Services	14
812	Personal and Laundry Services	13
513	Publishing Industries	6
722	Food Services and Drinking Places	5
483	Water Transportation	5
311	Food Manufacturing	4
456	Health and Personal Care Retailers	4
441	Motor Vehicle and Parts Dealers	4
331	Primary Metal Manufacturing	4
924	Administration of Environmental Quality Programs	3
115	Animal Production	3
423	Merchant Wholesalers, Durable Goods	3
522	Credit Intermediation and Related Activities	2
111	Crop Production	1
519	Other Information Services	1
531	Real Estate	1
	Sporting Goods, Hobby, Musical Instrument, Book, and	
459	Miscellaneous Retailers	1

Appendix C: Active Apprenticeship Programs by Workforce Development Area

Accommodation and Food Service

WDA	Number of Active Apprenticeship Programs	
Dallas County	4	
Gulf Coast	1	
Grand Total	5	

Administrative and Support and Waste Management and Remediation Services

WDA	Number of Active Apprenticeship Programs
Gulf Coast	1
North Texas	3

Construction

WDA	Number of Active Apprenticeship Programs
Alamo	2,535
Borderplex	1,151
Brazos Valley	88
Capital Area	2,145

WDA	Number of Active Apprenticeship Programs
Central Texas	10
Coastal Bend	496
Concho Valley	5
Dallas County	1,701
East Texas	28
Golden Crescent	9
Gulf Coast	5,357
Heart of Texas	132
Lower Rio Grande Valley	92
North Central	953
North East	51
North Texas	71
Panhandle	231
Permian Basin	79
Rural Capital	63
South East Texas	269
South Plains	201
South Texas	6
Tarrant County	926
West Central	33

Educational Services

WDA	Number of Active Apprenticeship Programs
Alamo	76
Brazos Valley	3
Cameron	37
Capital Area	290
Coastal Bend	1
Dallas County	581
East Texas	2
Gulf Coast	1,609
Lower Rio Grande Valley	281
North Central	163
North East	6
Permian Basin	97
South East Texas	92
South Plains	8
Tarrant County	209
West Central	7

Finance and Insurance

WDA	Number of Active Apprenticeship Programs
Alamo	2

WDA	Number of Active Apprenticeship Programs
Gulf Coast	111

Health Care and Social Assistance

WDA	Number of Active Apprenticeship Programs
Borderplex	4
Capital Area	21
Dallas County	4,917
East Texas	27
Gulf Coast	210
Heart of Texas	12
North Central	7
North Texas	13
Panhandle	48
Permian Basin	65
Rural Capital	213
South Plains	8
Tarrant County	74
West Central	2

Information

WDA	Number of Active Apprenticeship Programs
Central Texas	7
Gulf Coast	12
Tarrant County	2

Manufacturing

WDA	Number of Active Apprenticeship Programs
Alamo	76
Borderplex	2
Cameron	5
Capital Area	23
Coastal Bend	91
East Texas	227
Gulf Coast	492
Heart of Texas	2
North Central	48
North East	1
Panhandle	4
South East Texas	2
Tarrant County	362

Mining, Quarrying, and Oil and Gas Extraction

WDA	Number of Active Apprenticeship Programs
Gulf Coast	26

WDA	Number of Active Apprenticeship Programs
Permian Basin	4

Other Services (except Public Administration)

WDA	Number of Active Apprenticeship Programs
Alamo	3
Borderplex	56
Capital Area	5
Central Texas	65
Dallas County	31
Gulf Coast	116
North Central	1,981
South Plains	4
Tarrant County	2
West Central	4

Professional, Scientific, and Technical Services

WDA	Number of Active Apprenticeship Programs
Brazos Valley	5
Capital Area	16
Dallas County	77
Deep East Texas	22
Gulf Coast	6
North Central	5
Tarrant County	1

Public Administration (not covered in economic census)

WDA	Number of Active Apprenticeship Programs
Alamo	6
Borderplex	12
Capital Area	3
Coastal Bend	1
Dallas County	7
East Texas	19
Gulf Coast	959
Tarrant County	96

Real Estate and Rental and Leasing

WDA	Number of Active Apprenticeship Programs
Gulf Coast	1

Retail Trade

WDA	Number of Active Apprenticeship Programs		
Capital Area		1	
Central Texas		1	

WDA	Number of Active Apprenticeship Programs	
Dallas County		6
Rural Capital		1

Transportation and Warehousing

WDA	Number of Active Apprenticeship Programs	
Capital Area		11
Dallas County		36
Gulf Coast		51

Utilities

WDA	Number of Active Apprenticeship Programs
Alamo	154
Borderplex	46
Brazos Valley	25
Capital Area	154
Coastal Bend	7
Dallas County	66
Gulf Coast	71
Heart of Texas	10
North Central	69
Panhandle	137
Permian Basin	8
Rural Capital	149
South East Texas	143
South Plains	3
Texoma	3
West Central	181

Wholesale Trade

WDA	Number of Active Apprenticeship Programs	
Alamo		3

Appendix D: Occupations in the Fastest Growing Industries

SOC	Occupational Title	Number of the Top 25 industries with occupation	Number of Apprenticeship Programs	# of active apprentices
	Bookkeeping, Accounting,			
43-3031	and Auditing Clerks	25	3	8
13-1071	Human Resources Specialists	25	2	9
	Maintenance and Repair			
49-9071	Workers, General	25	6	166
43-9061	Office Clerks, General	25	0	0
	Secretaries and			
43-6014	Administrative Assistants	25	0	0

SOC	Occupational Title	Number of the Top 25 industries with occupation	Number of Apprenticeship Programs	# of active apprentices
	Janitors and Cleaners, Except	occupation.	1.08.4	
	Maids and Housekeeping			
37-2011	Cleaners	24	1	1
	General and Operations			
11-1021	Managers	23	0	0
	Training and Development			
13-1151	Specialists	23	2	66
33-9032	Security Guards	22	0	0
	Production, Planning, and			
43-5061	Expediting Clerks	19	4	30
	Human Resources Assistants,			
	Except Payroll and			
43-4161	Timekeeping	18	1	1
	Payroll and Timekeeping			
43-3051	Clerks	18	0	0
27-3031	Public Relations Specialists	18	0	0
	Dispatchers, Except Police,			
43-5032	Fire, and Ambulance	17	1	1
	First-Line Supervisors of		,	
41-1011	Retail Sales Workers	17	1	34
13-1041	Compliance Officers	16	0	0
F2 2022	Heavy and Tractor-Trailer	10		472
53-3032	Truck Drivers	16	9	472
27 2011	Landscaping and	15	2	11
37-3011	Groundskeeping Workers	15	2	11
37-2012	Maids and Housekeeping Cleaners	15	0	0
43-9021	Data Entry Keyers	14	1	1
13-1111	Management Analysts	14	2	91
13-1111	Inspectors, Testers, Sorters,	14	2	91
51-9061	Samplers, and Weighers	13	3	5
31 3001	Installation, Maintenance,	13	3	3
	and Repair Workers, All			
49-9099	Other	13	0	0
	Automotive Service			-
49-3023	Technicians and Mechanics	12	11	2,019
	Bus and Truck Mechanics and			, = -
49-3031	Diesel Engine Specialists	12	6	154
	HelpersInstallation,			
	Maintenance, and Repair			
49-9098	Workers	12	0	0
	Industrial Machinery			
49-9041	Mechanics	12	11	150
39-9032	Recreation Workers	12	0	0
	Cooks, Institution and			
35-2012	Cafeteria	11	1	4

SOC	Occupational Title	Number of the Top 25 industries with occupation	Number of Apprenticeship Programs	# of active apprentices
	First-Line Supervisors of			
	Housekeeping and Janitorial			
37-1011	Workers	11	0	0
	Laundry and Dry-Cleaning			
51-6011	Workers	11	0	0
	Maintenance Workers,			
49-9043	Machinery	11	0	0
.=	Painters, Construction and			
47-2141	Maintenance	11	10	104
50 7064	Cleaners of Vehicles and			22
53-7061	Equipment	10	1	23
47-2111	Electricians	10	97	7,605
27-1024	Graphic Designers	10	2	56
17-2112	Industrial Engineers	10	0	0
20 2064	Licensed Practical and			
29-2061	Licensed Vocational Nurses	10	2	9
31-9092	Medical Assistants	10	7	123
42 6042	Medical Secretaries and	10		2
43-6013	Administrative Assistants	10	1	2 2 2 5 4
29-1141	Registered Nurses	10	6	3,851
24 4002	Social and Human Service	10		
21-1093	Assistants	10	1	4
E4 4424	Welders, Cutters, Solderers,	10	42	440
51-4121	and Brazers	10	12	418
35-1011	Chefs and Head Cooks	9	0	0
17-2141	Mechanical Engineers	9	0	0
	Electrical and Electronic			
17-3023	Engineering Technologists and Technicians	0	4	49
29-2052	Pharmacy Technicians	9		53
35-2014	Cooks, Restaurant	9	5	96
33-2014	Heating, Air Conditioning,	9	J	90
	and Refrigeration Mechanics			
49-9021	and Installers	9	29	418
47-2031	Carpenters	9	36	676
47-2051	Construction Laborers	9	39	950
47 2001	Mail Clerks and Mail Machine	<u> </u>	33	330
	Operators, Except Postal			
43-9051	Service	8	0	0
.5 5051	Sales Representatives,	0		3
	Wholesale and			
	Manufacturing, Technical and			
41-4011	Scientific Products	8	1	1
	Insurance Claims and Policy			_
43-9041	Processing Clerks	8	2	4

SOC	Occupational Title	Number of the Top 25 industries with occupation	Number of Apprenticeship Programs	# of active apprentices
	Electrical and Electronics		J	
	Repairers, Commercial and			
49-2094	Industrial Equipment	8	1	23
21-1091	Health Education Specialists	8	7	29
39-9011	Childcare Workers	8	2	177
	Plumbers, Pipefitters, and			
47-2152	Steamfitters	8	79	3,133
	Hotel, Motel, and Resort			
43-4081	Desk Clerks	7	0	0
29-2053	Psychiatric Technicians	7	0	0
39-9041	Residential Advisors	7	0	0
21-1094	Community Health Workers	7	1	1
27-4011	Audio and Video Technicians	7	1	2
	Mobile Heavy Equipment			
49-3042	Mechanics, Except Engines	7	1	2
	Production Workers, All			
51-9199	Other	7	1	3
51-3011	Bakers	7	1	5
49-9096	Riggers	7	2	7
	Control and Valve Installers			
	and Repairers, Except			
49-9012	Mechanical Door	7	6	14
35-3011	Bartenders	6	0	0
	Farmworkers, Farm, Ranch,			
45-2093	and Aquacultural Animals	6	0	0
	Paralegals and Legal			
23-2011	Assistants	6	1	1
53-7021	Crane and Tower Operators	6	2	7
	Construction and Building			
47-4011	Inspectors	6	1	8
	Educational, Guidance, and			
	Career Counselors and			_
21-1012	Advisors	6	1	9
47-2011	Boilermakers	6	4	14
53-2012	Commercial Pilots	6	1	18
	Aircraft Mechanics and			
49-3011	Service Technicians	6	1	27
51-4041	Machinists	6	7	47
	Telecommunications			
	Equipment Installers and			
40.2022	Repairers, Except Line			22
49-2022	Installers	6	6	98
	Petroleum Pump System			
F4 0000	Operators, Refinery		_	450
51-8093	Operators, and Gaugers	6	4	159
40 2044	Computer, Automated Teller,			200
49-2011	and Office Machine Repairers	6	2	286

39-2021 Animal Caretakers 5 19-4021 Biological Technicians 5 Claims Adjusters, Examiners,	0 0 0 0 0 0 0
47-2073Equipment Operators6239-2021Animal Caretakers519-4021Biological Technicians5Claims Adjusters, Examiners, and Investigators547-5081HelpersExtraction Workers5Life, Physical, and Social 19-4099Science Technicians, All Other549-9062Medical Equipment Repairers5Merchandise Displayers and 27-1026Window Trimmers5Mixing and Blending Machine Setters, Operators, and Tenders5	0 0 0 0 0
39-2021 Animal Caretakers 19-4021 Biological Technicians Claims Adjusters, Examiners, 13-1031 and Investigators 47-5081 HelpersExtraction Workers Life, Physical, and Social 19-4099 Science Technicians, All Other 49-9062 Medical Equipment Repairers Merchandise Displayers and 27-1026 Window Trimmers Mixing and Blending Machine Setters, Operators, and 51-9023 Tenders 5	0 0 0 0 0
19-4021 Biological Technicians Claims Adjusters, Examiners, and Investigators 5 47-5081 HelpersExtraction Workers Life, Physical, and Social 19-4099 Science Technicians, All Other 5 49-9062 Medical Equipment Repairers Merchandise Displayers and 27-1026 Window Trimmers Mixing and Blending Machine Setters, Operators, and 51-9023 Tenders 5 Claims Adjusters, Examiners, 5 MelpersExtraction Workers 5 MelpersExtraction Workers 5 MelpersExtraction Workers 5 Mixing and Social 5 Medical Equipment Repairers 5 Mixing and Blending Machine Setters, Operators, and 51-9023 Tenders 5	0 0 0 0 0 0 0
Claims Adjusters, Examiners, and Investigators 47-5081 HelpersExtraction Workers Life, Physical, and Social 19-4099 Science Technicians, All Other 49-9062 Medical Equipment Repairers Merchandise Displayers and 27-1026 Window Trimmers Mixing and Blending Machine Setters, Operators, and 51-9023 Tenders 5	0 0 0 0
13-1031and Investigators547-5081HelpersExtraction Workers5Life, Physical, and Social519-4099Science Technicians, All Other549-9062Medical Equipment Repairers5Merchandise Displayers and527-1026Window Trimmers5Mixing and Blending Machine Setters, Operators, and Tenders5	0 0 0
47-5081 HelpersExtraction Workers 5 Life, Physical, and Social 9-4099 Science Technicians, All Other 5 49-9062 Medical Equipment Repairers 5 Merchandise Displayers and 27-1026 Window Trimmers 5 Mixing and Blending Machine Setters, Operators, and 51-9023 Tenders 5	0 0 0
Life, Physical, and Social 19-4099 Science Technicians, All Other 5 49-9062 Medical Equipment Repairers 5 Merchandise Displayers and 27-1026 Window Trimmers 5 Mixing and Blending Machine Setters, Operators, and 51-9023 Tenders 5	0 0
19-4099 Science Technicians, All Other 5 49-9062 Medical Equipment Repairers 5 Merchandise Displayers and 7 27-1026 Window Trimmers 5 Mixing and Blending Machine Setters, Operators, and 51-9023 Tenders 5	0
49-9062 Medical Equipment Repairers 5 Merchandise Displayers and 77-1026 Window Trimmers 5 Mixing and Blending Machine 8 Setters, Operators, and 751-9023 Tenders 5	0
Merchandise Displayers and 27-1026 Window Trimmers 5 Mixing and Blending Machine Setters, Operators, and 51-9023 Tenders 5	
27-1026 Window Trimmers 5 Mixing and Blending Machine Setters, Operators, and 51-9023 Tenders 5	0
Mixing and Blending Machine Setters, Operators, and Tenders 5	0
Setters, Operators, and 51-9023 Tenders 5	
Setters, Operators, and 51-9023 Tenders 5	
51-9023 Tenders 5	
Outdoor Power Equipment	0
Outdoor Forest Equipment	
and Other Small Engine	
49-3053 Mechanics 5	0
41-2022 Parts Salespersons 5	0
Private Detectives and	
33-9021 Investigators 5	0
Public Safety	
43-5031 Telecommunicators 5	0
Radiologic Technologists and	
29-2034 Technicians 5	0
29-2055 Surgical Technologists 5	0
Tailors, Dressmakers, and	
51-6052 Custom Sewers 5	0
17-3013 Mechanical Drafters 5	2
51-6031 Sewing Machine Operators 5	1
Mechanical Engineering	
Technologists and	
17-3027 Technicians 5	1
19-4031 Chemical Technicians 5	1
31-9097 Phlebotomists 5	5
Cement Masons and	
47-2051 Concrete Finishers 5	8
Security and Fire Alarm	
49-2098 Systems Installers 5	.7 25
17-2011 Aerospace Engineers 4	0
43-5011 Cargo and Freight Agents 4	0
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and	
51-4031 Plastic 4	0

SOC	Occupational Title	Number of the Top 25 industries with occupation	Number of Apprenticeship Programs	# of active apprentices
	Electric Motor, Power Tool,			
49-2092	and Related Repairers	4	0	0
	Legal Secretaries and			
43-6012	Administrative Assistants	4	0	0
31-9011	Massage Therapists	4	0	0
	Architectural and Civil			
17-3011	Drafters	4	1	1
31-9091	Dental Assistants	4	1	2
	Magnetic Resonance Imaging			
29-2035	Technologists	4	1	3
	Industrial Engineering Technologists and			
17-3026	Technicians	4	2	4
	Hairdressers, Hairstylists, and		_	
39-5012	Cosmetologists	4	2	6
27-2012	Producers and Directors	4	2	8
	Multiple Machine Tool			
	Setters, Operators, and			
51-4081	Tenders, Metal and Plastic	4	2	16
01 .001	Reinforcing Iron and Rebar		_	
47-2171	Workers	4	2	19
31-9093	Medical Equipment Preparers	4	1	21
01 0000	Structural Metal Fabricators		_	
51-2041	and Fitters	4	1	31
	Telecommunications Line			
49-9052	Installers and Repairers	4	27	1,153
	Aerospace Engineering and Operations Technologists and			
17-3021	Technicians	3	0	0
40 2007	Audiovisual Equipment	2	0	0
49-2097	Installers and Repairers Automotive Glass Installers	3	0	0
40 2022		3	0	
49-3022	and Repairers Building Cleaning Workers,	3	0	0
37-2019	All Other	3	0	0
	Camera Operators,			
27-4031	Television, Video, and Film	3	0	0
	Captains, Mates, and Pilots of			
53-5021	Water Vessels	3	0	0
35-2011	Cooks, Fast Food	3	0	0
	Electrical and Electronics			
17-3012	Drafters	3	0	0
	Environmental Scientists and			
19-2041	Specialists, Including Health	3	0	0
	Fine Artists, Including Painters, Sculptors, and			
27-1012	•	2	0	
27-1013	Illustrators	3	0	0

SOC	Occupational Title	Number of the Top 25 industries with	Number of Apprenticeship	# of active apprentices
		occupation	Programs	
27-1025	Interior Designers	3	0	0
17-2131	Materials Engineers	3	0	0
31-9094	Medical Transcriptionists	3	0	0
	Metal Workers and Plastic			
51-4199	Workers, All Other	3	0	0
	Motorboat Mechanics and			
49-3051	Service Technicians	3	0	0
27-2042	Musicians and Singers	3	0	0
	Paving, Surfacing, and			
	Tamping Equipment			
47-2071	Operators	3	0	0
27-4021	Photographers	3	0	0
	Photographic Process			
	Workers and Processing			
51-9151	Machine Operators	3	0	0
31-2022	Physical Therapist Aides	3	0	0
	Police and Sheriff's Patrol			
33-3051	Officers	3	0	0
51-5112	Printing Press Operators	3	0	0
43-9022	Word Processors and Typists	3	0	0
53-5011	Sailors and Marine Oilers	3	1	1
39-5094	Skincare Specialists	3	1	1
	Surveying and Mapping			
17-3031	Technicians	3	1	1
	Stationary Engineers and			
51-8021	Boiler Operators	3	3	4
	Recreational Vehicle Service			
49-3092	Technicians	3	2	7
	Cabinetmakers and Bench			
51-7011	Carpenters	3	1	17
	Electrical and Electronics			
	Repairers, Powerhouse,			
49-2095	Substation, and Relay	3	3	17
	Brickmasons and			
47-2021	Blockmasons	3	4	24
47-2181	Roofers	3	7	41
	Wind Turbine Service			
49-9081	Technicians	3	4	48
	Automotive Body and			
49-3021	Related Repairers	3	5	83
49-9044	Millwrights	3	6	564
	Electrical Power-Line			
49-9051	Installers and Repairers	3	33	1,194
	Structural Iron and Steel			
47-2221	Workers	3	12	1,582
	Atmospheric and Space			
19-2021	Scientists	2	0	0

SOC	Occupational Title	Number of the Top 25 industries with	Number of Apprenticeship	# of active apprentices
		occupation	Programs	apprentices
51-3021	Butchers and Meat Cutters	2	0	0
47-2041	Carpet Installers	2	0	0
-	Chemical Plant and System			
51-8091	Operators	2	0	0
	Commercial and Industrial			
27-1021	Designers	2	0	0
19-1031	Conservation Scientists	2	0	0
	Cutting and Slicing Machine			
	Setters, Operators, and			
51-9032	Tenders	2	0	0
43-9031	Desktop Publishers	2	0	0
	Electrical and Electronics			
	Installers and Repairers,			
49-2093	Transportation Equipment	2	0	0
	Electronic Equipment			
	Installers and Repairers,			
49-2096	Motor Vehicles	2	0	0
	Engine and Other Machine			
51-2031	Assemblers	2	0	0
	Extruding and Drawing			
	Machine Setters, Operators,			
51-4021	and Tenders, Metal and Plastic	2	0	0
31-4021	Farm Equipment Mechanics	2	U	U
49-3041	and Service Technicians	2	0	0
19-4092	Forensic Science Technicians	2	0	0
13 4032	Grinding, Lapping, Polishing,	2	0	- U
	and Buffing Machine Tool			
	Setters, Operators, and			
51-4033	Tenders, Metal and Plastic	2	0	0
29-2092	Hearing Aid Specialists	2	0	0
	Heat Treating Equipment			
	Setters, Operators, and			
51-4191	Tenders, Metal and Plastic	2	0	0
	Jewelers and Precious Stone			
51-9071	and Metal Workers	2	0	0
	Locksmiths and Safe			
49-9094	Repairers	2	0	0
39-5092	Manicurists and Pedicurists	2	0	0
49-9011	Mechanical Door Repairers	2	0	0
	Mining and Geological			
	Engineers, Including Mining			
17-2151	Safety Engineers	2	0	0
49-3052	Motorcycle Mechanics	2	0	0
29-2081	Opticians, Dispensing	2	0	0
37-2021	Pest Control Workers	2	0	0

SOC	Occupational Title	Number of the Top 25 industries with occupation	Number of Apprenticeship Programs	# of active apprentices
	Pesticide Handlers, Sprayers,			
37-3012	and Applicators, Vegetation	2	0	0
51-8013	Power Plant Operators	2	0	0
	Prepress Technicians and			
51-5111	Workers	2	0	0
	Print Binding and Finishing			
51-5113	Workers	2	0	0
21-2099	Religious Workers, All Other	2	0	0
	Rolling Machine Setters,			
	Operators, and Tenders,			
51-4023	Metal and Plastic	2	0	0
	Sound Engineering			
27-4014	Technicians	2	0	0
47-2022	Stonemasons	2	0	0
	Tank Car, Truck, and Ship			
53-7121	Loaders	2	0	0
53-6051	Transportation Inspectors	2	0	0
37-3013	Tree Trimmers and Pruners	2	0	0
	Molders, Shapers, and			
	Casters, Except Metal and			
51-9195	Plastic	2	1	1
39-2011	Animal Trainers	2	1	2
27-4032	Film and Video Editors	2	1	3
	Conveyor Operators and			
53-7011	Tenders	2	1	6
	Separating, Filtering,			
	Clarifying, Precipitating, and			
	Still Machine Setters,			
51-9012	Operators, and Tenders	2	1	6
	Insulation Workers, Floor,			
47-2131	Ceiling, and Wall	2	1	10
	Radio, Cellular, and Tower			
	Equipment Installers and			
49-2021	Repairers	2	2	14
51-6093	Upholsterers	2	1	15
	Electro-Mechanical and			
	Mechatronics Technologists			
17-3024	and Technicians	2	4	18
	Veterinary Assistants and			
31-9096	Laboratory Animal Caretakers	2	1	21
19-1013	Soil and Plant Scientists	2	2	40
	Water and Wastewater			
	Treatment Plant and System			
51-8031	Operators	2	6	43
	Drywall and Ceiling Tile			
47-2081	Installers	2	3	78

soc	Occupational Title	Number of the Top 25 industries with	Number of Apprenticeship	# of active apprentices
		occupation	Programs	apprentices
	Crushing, Grinding, and			
	Polishing Machine Setters,			
51-9021	Operators, and Tenders	2	1	81
	Elevator and Escalator			
47-4021	Installers and Repairers	2	4	488
47-2211	Sheet Metal Workers	2	21	707
27-2011	Actors	1	0	0
45-2011	Agricultural Inspectors	1	0	0
53-2022	Airfield Operations Specialists	1	0	0
27-4012	Broadcast Technicians	1	0	0
	Career/Technical Education			
25-2032	Teachers, Secondary School	1	0	0
	Cartographers and			
17-1021	Photogrammetrists	1	0	0
	Correctional Officers and			
33-3012	Jailers	1	0	0
39-3092	Costume Attendants	1	0	0
	Dental Laboratory			
51-9081	Technicians	1	0	0
53-7031	Dredge Operators	1	0	0
39-4011	Embalmers	1	0	0
	Extruding, Forming, Pressing,			
	and Compacting Machine			
	Setters, Operators, and			
51-9041	Tenders	1	0	0
45-4021	Fallers	1	0	0
47-4031	Fence Erectors	1	0	0
	First-Line Supervisors of			
	Farming, Fishing, and			
45-1011	Forestry Workers	1	0	0
	First-Line Supervisors of			
	Firefighting and Prevention			
33-1021	Workers	1	0	0
27-1023	Floral Designers	1	0	0
47-2121	Glaziers	1	0	0
	Hazardous Materials Removal			
47-4041	Workers	1	0	0
19-3093	Historians	1	0	0
	Medical Appliance			
51-9082	Technicians	1	0	0
40.0000	Musical Instrument Repairers	_		
49-9063	and Tuners	1	0	0
E4 0000	Ophthalmic Laboratory			
51-9083	Technicians	1	0	0
29-2091	Orthotists and Prosthetists	1	0	0
F1 0433	Painting, Coating, and			
51-9123	Decorating Workers	1	0	0

Paper Goods Machine Setters, Operators, and Tenders 1 0 49-3043 Rail Car Repairers 1 0 Aprenticeship Aport Directors Acting Machine Singular Machine Setters, Operators, Oil Ar-5012 and Gas 1 0 Shoe and Leather Workers and Repairers 1 0 Slaughterers and Meat Si-3021 Tellers 1 0 Terrazzo Workers and Finishers 1 0 Welding, Soldering, and Brazing Machine Setters, Setters, Operators, and Tenders, Except Sawing Agricultural Equipment Operators Helpers—Brickmasons, Blockmasons, Stonemasons, Ar-3011 and Tile and Marble Setters Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	tive tices
Paper Goods Machine Setters, Operators, and Tenders	
Setters, Operators, and Tenders	
51-9196 Tenders 1 0 49-3043 Rail Car Repairers 1 0 Rotary Drill Operators, Oil and Gas 1 0 47-5012 and Gas 1 0 Shoe and Leather Workers and and Repairers 1 0 0 51-6041 and Repairers 1 0 0 51-3023 Packers 1 0 0 43-3071 Tellers 1 0 0 47-2053 Finishers 1 0 0 47-2053 Finishers 1 0 0 Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders 1 0 0 51-4122 Operators, and Tenders 1 0 0 Woodworking Machine Setters, Operators, and Tenders 1 0 0 51-7042 Tenders, Except Sawing 1 0 1 45-2091 Operators 1 1 1 39-5011 Barbers 1 1 1 47-2161 Plasterers and Machine Setters, Operators, and Tenders, Incidence Setter	
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47-5012 and Gas 1 0 Shoe and Leather Workers 1 0 51-6041 and Repairers 1 0 Slaughterers and Meat 1 0 51-3023 Packers 1 0 43-3071 Tellers 1 0 Terrazzo Workers and 1 0 47-2053 Finishers 1 0 Welding, Soldering, and Brazing Machine Setters, 0 0 51-4122 Operators, and Tenders 1 0 Woodworking Machine Setters, Operators, and Tenders 1 0 51-7042 Tenders, Except Sawing 1 0 45-2091 Operators 1 1 1 39-5011 Barbers 1 1 1 47-2161 Plasterers and Stucco Masons 1 1 1 HelpersBrickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters 1 1 1 51-4111 Tool and Die Makers 1 5 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Operators, and Tenders, Operators, and Tenders, Operators,	0
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39-5011 Barbers 1 1 1 1 1 47-2161 Plasterers and Stucco Masons 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
47-2161 Plasterers and Stucco Masons 1 1 1 HelpersBrickmasons, Blockmasons, Stonemasons, 47-3011 and Tile and Marble Setters 1 1 1 51-4111 Tool and Die Makers 1 5 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, 51-4072 Metal and Plastic 1 2	1
HelpersBrickmasons, Blockmasons, Stonemasons, 47-3011 and Tile and Marble Setters 1 1 51-4111 Tool and Die Makers 1 5 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, 51-4072 Metal and Plastic 1 2	6
Blockmasons, Stonemasons, and Tile and Marble Setters 1 1 51-4111 Tool and Die Makers 1 5 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, 51-4072 Metal and Plastic 1 2	10
47-3011 and Tile and Marble Setters 51-4111 Tool and Die Makers 1 5 Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, 51-4072 Metal and Plastic 1 2	
51-4111 Tool and Die Makers Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, 51-4072 Metal and Plastic 1 5	
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, 51-4072 Metal and Plastic 1 2	11
Casting Machine Setters, Operators, and Tenders, 51-4072 Metal and Plastic 1 2	12
Operators, and Tenders, 51-4072 Metal and Plastic 1 2	
51-4072 Metal and Plastic 1 2	
	4.5
47-2044 Tile and Stone Setters 1 4	15
Floor Levers Fromt Cornet	18
Floor Layers, Except Carpet, 47-2042 Wood, and Hard Tiles 1 7	22
47-2042 Wood, and Hard Tiles 1 7 Aircraft Structure, Surfaces,	
Rigging, and Systems	
51-2011 Assemblers 1 1	26
47-2082 Tapers 1 1	33
Lathe and Turning Machine	- 33
Tool Setters, Operators, and	
51-4034 Tenders, Metal and Plastic 1 3	35
Ambulance Drivers and	33
Attendants, Except	
Emergency Medical	
53-3011 Technicians 1 1	51
33-2011 Firefighters 1 3	112

SOC	Occupational Title	Number of the Top 25 industries with occupation	Number of Apprenticeship Programs	# of active apprentices
	Insulation Workers,			
47-2132	Mechanical	1	13	166
49-9031	Home Appliance Repairers	1	5	225
	Chemical Equipment			
51-9011	Operators and Tenders	1	3	305