

Professional Pilot Technology Occupation Report


CIP 49.0102

Cochise, Pima, SC







Airline/Commercial/Professional Pilot and Flight Crew

CIP 2010: A program that prepares individuals to apply technical knowledge and skills to the flying and/or navigation of commercial passenger and cargo, agricultural, public service, corporate and rescue fixed wing aircraft. Includes instruction in principles of aircraft design and performance, aircraft flight systems and controls, flight crew operations and procedures, radio communications, navigation procedures and systems, airways safety and traffic regulations, and governmental rules and regulations pertaining to piloting aircraft. Programs may qualify individuals to sit for the FAA commercial and airline aircrew examinations.

Occupation Gender Breakdown

	Gender	2016 Jobs	2016 Percent
•	Males	243	96.3% 
•	Females	9	3.7% 

Occupation Age Breakdown 2016

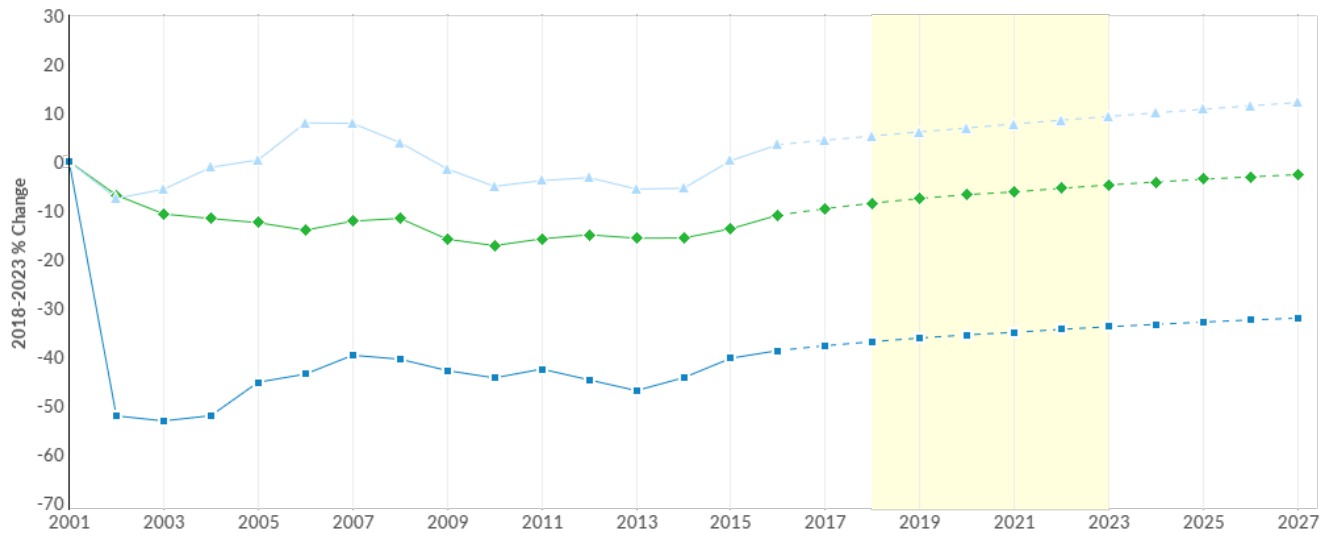
	Age	Jobs	Percent
•	14-18	0	0.0%
•	19-24	7	2.9% 
•	25-34	46	18.2% 
•	35-44	56	22.2% 
•	45-54	66	26.2% 
•	55-64	62	24.5% 
•	65+	15	6.0% 

Occupation Summary for 49.0102

252 Jobs (2016) 34% below National average	4.6% % Change (2018-2023) Nation: 4.1%	\$35.41/hr Median Hourly Earnings Nation: \$51.02/hr
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October 10, 2017

Occupation Change Summary



	Region	2018 Jobs	2023 Jobs	Change	% Change	Median Hourly Earnings
●	Cochise County, AZ	<10	<10	--	--	\$32.23
●	Cochise, Pima, SC	260	272	12	5%	\$35.41
●	Arizona (AZ)	4,407	4,575	168	4%	\$35.73
●	United States	131,943	137,326	5,383	4%	\$51.02

SOC	Description	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
53-2011	Airline Pilots, Copilots, and Flight Engineers	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
53-2012	Commercial Pilots	High school diploma or equivalent	None	Moderate-term on-the-job training

Occupation Breakdown - 2018 Jobs

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
53-2012	Commercial Pilots	<10	149	1,226	43,505
53-2011	Airline Pilots, Copilots, and Flight Engineers	<10	111	3,181	88,438
	Total	<10	260	4,407	131,943

Occupation Breakdown - 2023 Jobs

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
53-2012	Commercial Pilots	<10	162	1,327	46,372
53-2011	Airline Pilots, Copilots, and Flight Engineers	<10	110	3,248	90,954
	Total	<10	272	4,575	137,326

Occupation Breakdown - Change

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
53-2011	Airline Pilots, Copilots, and Flight Engineers	--	-1	67	2,516
53-2012	Commercial Pilots	--	13	101	2,867
	Total	0	12	168	5,383

Occupation Breakdown - Median Hourly Earnings

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
53-2011	Airline Pilots, Copilots, and Flight Engineers	--	\$44.68	\$37.23	\$61.45
53-2012	Commercial Pilots	--	\$31.95	\$33.29	\$36.55
	Total	\$0.00	\$37.55	\$36.17	\$53.39

Top Industries – Change from 2018 - 2023

NAICS Code	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
115115	Farm Labor Contractors and Crew Leaders	--	--	2	148
481211	Nonscheduled Chartered Passenger Air Transportation	--	2	5	315
481219	Other Nonscheduled Air Transportation	--	--	20	481
481111	Scheduled Passenger Air Transportation	--	-4	28	1,977
901199	Federal Government, Civilian, Excluding Postal Service	--	2	3	-78
	Total	0	1	59	2,843

Source: QCEW Employees, Non-QCEW Employees & Self-Employed - Emsi 2017.3 Class of Worker

National Educational Attainment

Commercial Pilots (53-2012)

Education Level	2016 Percent
Less than high school diploma	0.5%
High school diploma or equivalent	4.8% ■
Some college, no degree	13.7% ■■
Associate's degree	6.8% ■
Bachelor's degree	60.7% ■■■■■■
Master's degree	11.2% ■■
Doctoral or professional degree	2.3%

* National Educational Attainment - Settings

National Educational Attainment

Airline Pilots, Copilots, and Flight Engineers (53-2011)

Education Level	2016 Percent
Less than high school diploma	0.5%
High school diploma or equivalent	4.8% ■
Some college, no degree	13.7% ■■
Associate's degree	6.8% ■
Bachelor's degree	60.7% ■■■■■■
Master's degree	11.2% ■■
Doctoral or professional degree	2.3%

* National Educational Attainment - Settings

Appendix A - Data Sources and Calculations

Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

Occupation Data

EMSI occupation employment data are based on final EMSI industry data and final EMSI staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates also affected by county-level EMSI earnings by industry.

Completers Data

The completers data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Industry Data

EMSI industry data have various sources depending on the class of worker. (1) For QCEW Employees, EMSI primarily uses the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns and Current Employment Statistics. (2) Non-QCEW employees data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics. (3) Self-Employed and Extended Proprietor classes of worker data are primarily based on the American Community Survey, Nonemployer Statistics, and BEA State and Local Personal Income Reports. Projections for QCEW and Non-QCEW Employees are informed by NIOEM and long-term industry projections published by individual states.

Staffing Patterns Data

The staffing pattern data in this report are compiled from several sources using a specialized process. For QCEW and Non-QCEW Employees classes of worker, sources include Occupational Employment Statistics, the National Industry-Occupation Employment Matrix, and the American Community Survey. For the Self-Employed and Extended Proprietors classes of worker, the primary source is the American Community Survey, with a small amount of information from Occupational Employment Statistics.

State Data Sources

This report uses state data from the following agencies: Arizona Department of Administration, Office of Employment and Population Statistics