

# Occupational Profile:

## Machinists

### Description

Machinists use machine tools, such as lathes, milling machines, and machining centers, to produce precision metal parts. Although they may produce large quantities of one part, precision machinists often produce small batches or one-of-a-kind items. They use their knowledge of the working properties of metals and their skill with machine tools to plan and carry out the operations needed to make machined products that meet precise specifications.

### Required Education

Nationwide, 66.3% of machinists aged 25 to 44 have a high school degree or less. Thirty percent have an associate's degree or some college, and 3.7% have a bachelor's degree or more.

### Educational Attainment for Machinists

High School or Less	66.3%
Associates Degree/Some College	30.0%
Bachelor Degree or More	3.7%

Source: U.S. Bureau of Labor Statistics

### Wages

There were approximately 3,020 machinists working in the Greater Phoenix region in 2006, earning an average of \$37,145 annually.

### Wages for Machinists

Pay Period	Wages by Percentile, 2006				
	10%	25%	50%	75%	90%
Hourly	\$10.81	\$13.47	\$16.83	\$20.74	\$25.79
Yearly	\$22,487	\$28,012	\$35,007	\$43,144	\$53,651

Source: Arizona Department of Economic Security

### Employment Projections

The number of machinists in Greater Phoenix is expected to grow 13.3% between 2004 and 2014. This translates to approximately 110 job openings annually, with 36% being new jobs added by businesses expanding operations, and 64% from employee vacancies such as retirements and career changes.

### Employment Projections for Machinists

Employment Growth, 2004-2014	Average Annual Job Openings, 2004-2014
13.3%	110

Source: Arizona Department of Economic Security

### Programs at the Maricopa Community Colleges

The Maricopa Community Colleges offer three programs district wide for students training to be machinists. Associate in applied science degrees and certificates of completion are available.

College/Skills Center	Program	Associate in Applied Science	Certificate of Completion
Gateway	Manufacturing Productivity	x	x
Maricopa Skills Center	Machine Trades		x
Mesa	Manufacturing Technology		x