

# Machinist

## PANHANDLE

*Average Wage*  
\$16.61

*Average Annual  
Job Openings*  
15

*Employment in*  
2004      2014  
500        550

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## TEXAS

*Average Wage*  
\$15.60

*Average Annual  
Job Openings*  
1,135

*Employment in*  
2004      2014  
26,450    31,650

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## UNITED STATES

*Employment in*  
2006  
385,690

*Female*      4%  
*Minority*    33%

## EMPLOYMENT CODES

OES 89108

O\*NET 51-4041.00  
*Machinists*

## JOB DESCRIPTION

Set up and operate machine tools; fit and assemble parts to make or repair metal parts, mechanisms, tools or machines; apply knowledge of mechanics, shop mathematics, metal properties, and layout machining procedures.



## SKILLS AND APTITUDES NEEDED

- ◆ Aptitude in mechanics
- ◆ Experience with machine tools
- ◆ Basic knowledge of computers, electronics, mathematics, blueprint reading, metalworking and drafting
- ◆ Ability to work independently
- ◆ Capability for highly accurate work that requires concentration and physical effort



Machinists use machine tools, such as lathes, drill presses, and milling machines to produce precision metal parts. 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. Increasingly, the machine tools used to produce metal parts are computer numerically controlled (CNC), meaning that they contain computer controllers that direct the machine's operations.

Machinists must wear protective equipment such as safety glasses to shield against bits of flying metal and earplugs to dampen machinery noise. They must exercise caution when handling hazardous coolants and lubricants. The job requires stamina, because machinists stand most of the day and at times may need to lift moderately heavy work pieces.

## PANHANDLE AREA PUBLIC TRAINING PROVIDERS

Training Provider	Direct	Related	Education Offering
Frank Phillips College Borger, Perryton		√	A.A.S (Associate in Applied Science Degree), Industrial Manufacturing Major

### LICENSE/CERTIFICATION

Optional: National Institute of Metalworking Skills (NIMS) Accreditation

Optional: Journeyman's License

### HIGHEST EMPLOYMENT LEVELS BY INDUSTRY

Fabricated Metal Product Manufacturing	33%
Agriculture/Construction/Mining Machinery Manufacturing	14%
Machine Shop/Turned Product/Screw, Nut & Bolt Manufacturing	13%
Petroleum/Coal Products Manufacturing	5%
Rail Transportation	5%
Machinery/Equipment/Merchant Supplies Wholesaling	3%
Engine/Turbine/Power Transmission Equipment Manufacturing	3%
Commercial/Industrial Machinery & Equipment Manufacturing	3%

### FOR MORE INFORMATION

The National Tooling and Machining Association, 9300 Livingston Rd., Fort Washington, MD 20744, (301) 248-6200, <http://www.ntma.org>

The Precision Machined Products Association, 6700 West Snowville Rd., Brecksville, OH 44141, (440) 526-0300, <http://www.pmpa.org>

National Institute for Metalworking Skills, Inc., 3251 Old Lee Hwy., Suite 205, Fairfax, VA 22030, (703) 352-4971, [www.nims-skills.org](http://www.nims-skills.org)

For additional website sources, please refer to the Resource Index.

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