

# PRECISION MACHINING

2022-2023



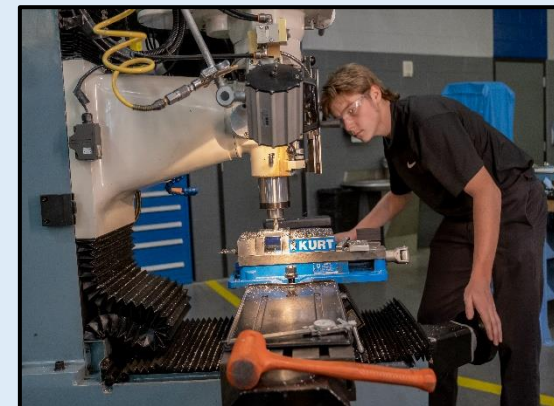
**Precision Machining** is designed for students interested in careers in areas such as: machining, tool and die, CNC programming/operation, millwright, robotics, and engineering. This program offers a high earning potential and a wide array of career choices. Students learn to apply the concepts of the various manufacturing technologies on both manual and state-of-the-art machines. Precision Machining is part of the Advanced Manufacturing Academy. Senior students have the opportunity to engage in advanced-elective course work in any of the manufacturing areas: Computer-Aided Design, Precision Machining, Robotics & Automation, and Welding. This opportunity provides students with a more diverse skill-set to enter a career in manufacturing.

### Program Highlights:

- Work with Computer-Aided Manufacturing (CAM) software and machines to automate manufacturing processes
- Operate industrial lathes and mills that are used every day in the manufacturing industry
- Design, create and build high-tech parts using precision measuring instruments

### The Program Focuses on the Following State Approved Courses:

- Machine Tools
- Machining with Industrial Lathes



### COST-FREE COLLEGE CREDIT OPPORTUNITIES

#### College Credit Plus through Owens Community College

- CAD 125: Production Drawing (3 Credit Hours)
- CAM 122: CNC Mill Applications (2 Credit Hours)
- CAM 160: Machining I (2 Credit Hours)
- CAM 161: Machining II (2 Credit Hours)

#### Career Technical Assurance Guides (CTAGs)

- CTS001: OSHA 10-Hour Safety (1 Credit Hour)

### INDUSTRY-RECOGNIZED CREDENTIALS (POINT VALUES)

- Ohio State Apprenticeship Council Recognized Pre-Apprenticeship Program Certificate of Completion (12 Points)
- NIMS Machining Level 2 Certification (12 Points)
- OSHA 10-Hour Training (1 Point)
- Ohio Driver's License (1 Point)

### OHIO MEANS JOBS OCCUPATIONS LISTED ACCORDING TO TYPICAL SALARY

OCCUPATION TITLE	TYPICAL SALARY- BOTTOM 10%	TYPICAL SALARY- MEDIAN	TYPICAL SALARY- TOP 10%	TYPICAL EDUCATION	ANNUAL JOB OPENINGS
Grinding, Lapping, Polishing, & Buffing Machine Tool Setters, Operators, & Tenders, Metal & Plastic*	\$28,820	\$36,380	\$48,500	HS Diploma or Equivalent	620
Machinists*	\$29,370	\$43,410	\$61,190	HS Diploma or Equivalent	2,630
Cutting, Punching, & Press Machine Setters, Operators, & Tenders, Metal & Plastic*	\$29,440	\$37,630	\$57,110	HS Diploma or Equivalent	1,450
Multiple Machine Tool Setters, Operators, & Tenders, Metal & Plastic*	\$29,460	\$38,080	\$59,970	HS Diploma or Equivalent	1,540
Computer Numerically Controlled Tool Operators*	\$30,060	\$39,910	\$60,390	HS Diploma or Equivalent	1,280
Tool and Die Makers*	\$35,300	\$49,620	\$76,520	Postsecondary Certificate	560
Computer Numerically Controlled Tool Programmers*	\$37,970	\$57,580	\$77,410	Postsecondary Certificate	310
Manufacturing Engineers*	\$60,260	\$79,550	\$127,110	Bachelor's Degree	1,300

**JOB OUTLOOK COMPILED BY OHIO MEANS JOBS AS OF SEPTEMBER 2022; VISIT OHIOMEANSJOBS.COM FOR MORE INFORMATION.**

\*Denotes an In-Demand Occupation in the State of Ohio

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EDUCATION WITH PURPOSE  
**CAREER TREE**



**TECHNICAL CAREERS**

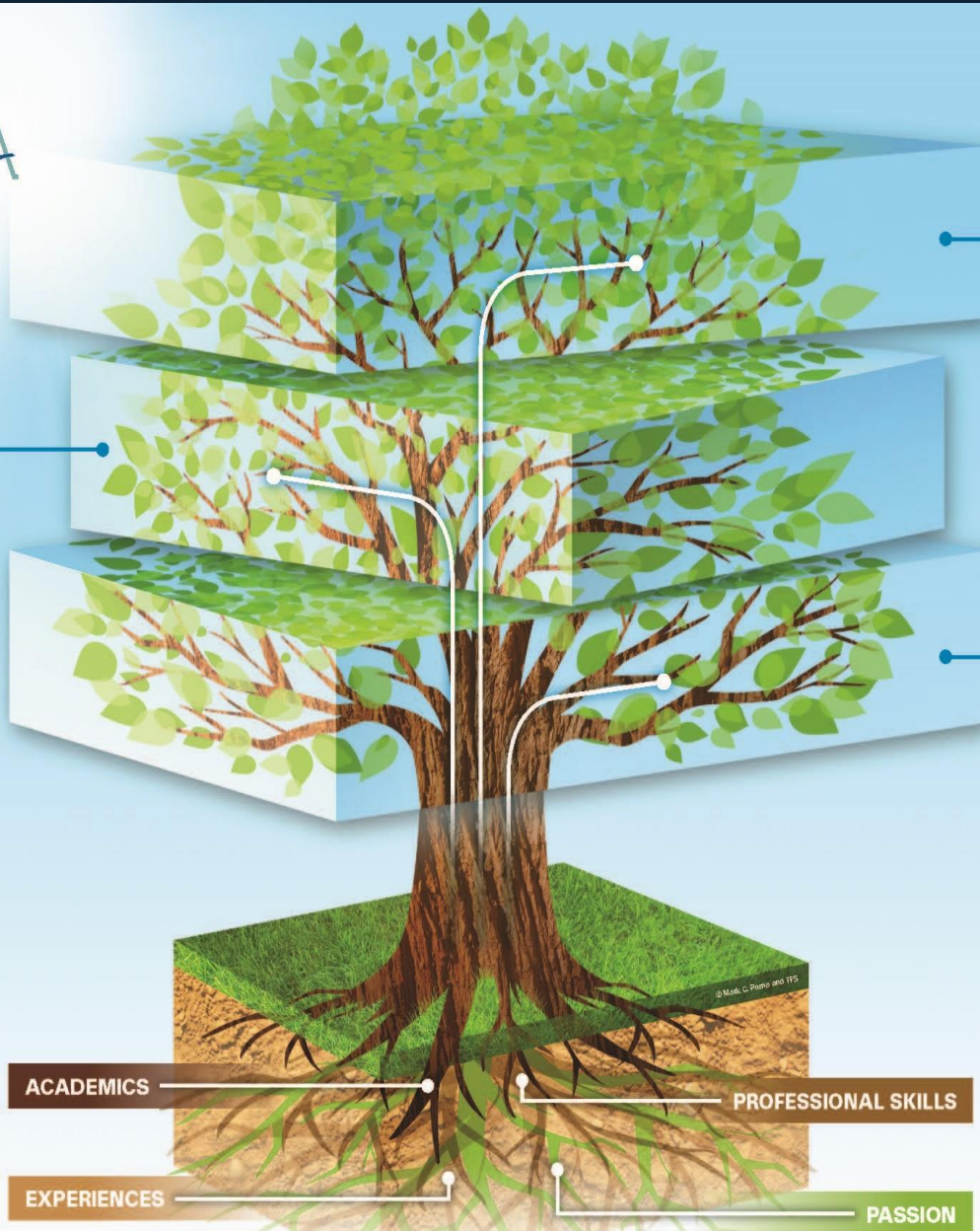
- Machinist
- Maintenance Machinist
- Millwright
- Quality Control Inspector
- Mold Maker
- Pattern Maker
- Tool & Die Maker
- Instrument Maker
- CNC Programmer
- CNC Machinist
- Machine Builder
- Robot Programmer

**PROFESSIONAL CAREERS**

- Manufacturing Engineer
- Quality Manager
- Aerospace Manufacturing Manager
- Medical Device Manufacturing Engineer
- Computer Automated Manufacturing Engineer
- Manufacturing Sales Engineer
- Aeronautical Engineer
- Aerospace Engineer
- Metallurgist
- Instructor
- Quality Engineer
- Plant Engineer

**ENTRY-LEVEL CAREERS**

- Machine Operator
- CNC Operator
- Robot Operator
- Material Handler
- Assembler
- Packager
- Press Operator
- Quality Assistant
- Apprentice
- Stock Cutter/Handler
- Inspector
- Manual Machine Tool Operator



**PRECISION MACHINING**



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