

PRECISION MACHINING

2023-2024



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*	\$29,360	\$37,220	\$58,650	HS Diploma or Equivalent	620
Machinists*	\$31,810	\$46,720	\$66,860	HS Diploma or Equivalent	2,630
Cutting, Punching, & Press Machine Setters, Operators, & Tenders, Metal & Plastic*	\$31,100	\$38,400	\$56,220	HS Diploma or Equivalent	1,450
Multiple Machine Tool Setters, Operators, & Tenders, Metal & Plastic*	\$30,820	\$40,650	\$61,800	HS Diploma or Equivalent	1,540
Computer Numerically Controlled Tool Operators*	\$32,210	\$44,900	\$60,120	HS Diploma or Equivalent	1,280
Tool and Die Makers*	\$37,790	\$57,880	\$78,000	Postsecondary Certificate	560
Computer Numerically Controlled Tool Programmers*	\$43,640	\$59,170	\$82,760	Postsecondary Certificate	310
Manufacturing Engineers*	\$61,050	\$87,120	\$129,160	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

Instructor: Bob Golden 419.666.1120 Ext. 1407 rgolden@pentacc.org
Supervisor: Dave Stacklin 419.661.6553 dstacklin@pentacc.org

Career Services: Marshall Wolf 419.661.6372 mwolf@pentacc.org
Admissions: Tricia Hornyak 419.661.6498 thornyak@pentacc.org

EDUCATION WITH PURPOSE
CAREER TREE



TECHNICAL CAREERS

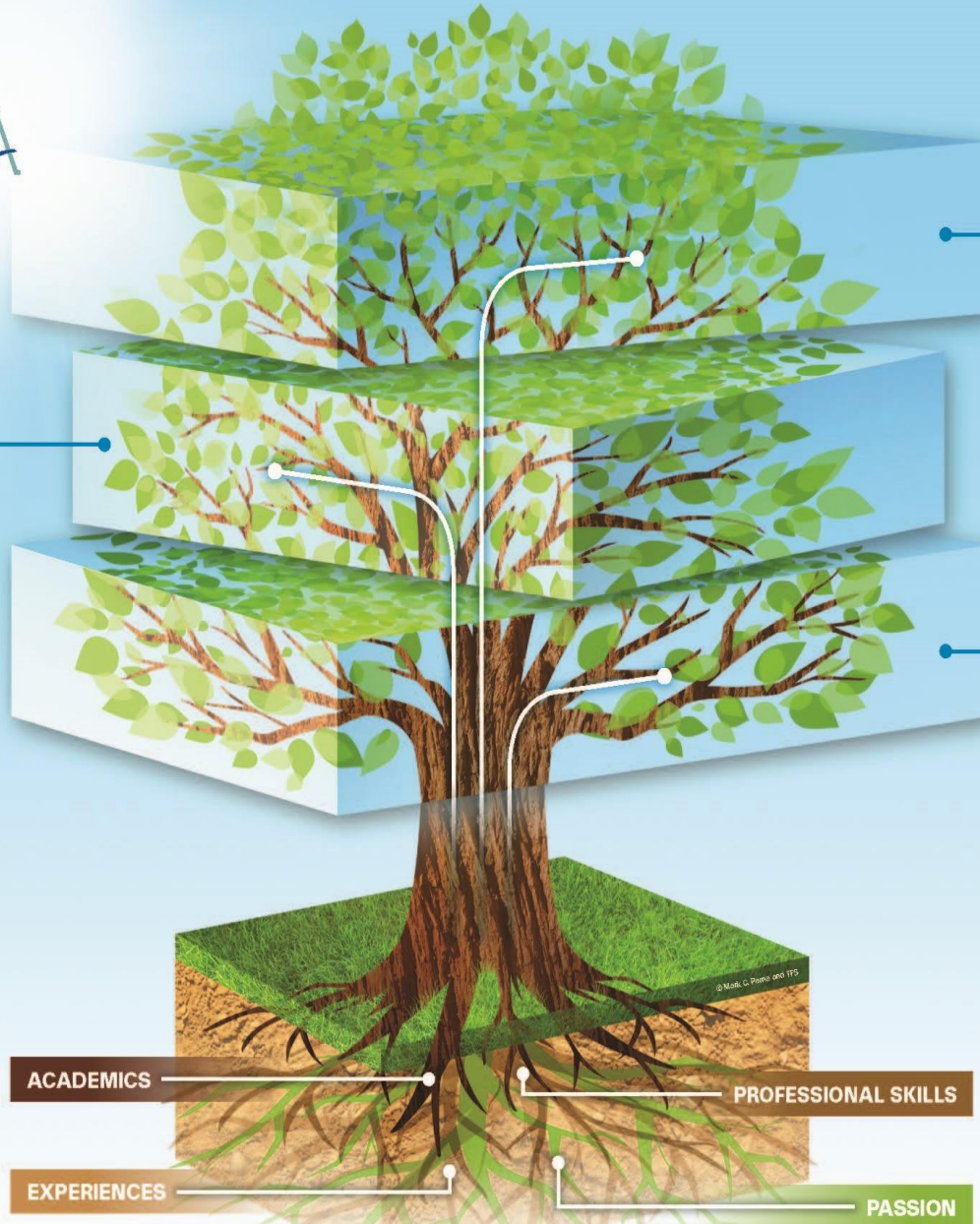
- Machinist
- Maintenance Machinist
- Millwright
- Quality Control Inspector
- Mold Maker
- Pattern Maker
- Tool & Die Maker
- Instrument Maker
- CNC Programmer
- CNC Machinist
- Machine Builder
- Robot Programmer

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



ACADEMICS

PROFESSIONAL SKILLS

EXPERIENCES

PASSION

PRECISION MACHINING



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