

PRECISION MACHINING



WHAT IS THIS PROGRAM ALL ABOUT?

Precision Machining is designed to provide students with a basic understanding of the processes used in manufacturing, maintenance, and repair. Students will set up and operate the power saw, drill press, lathe, milling machine, grinder, and computer numerical control (CNC) machines. Emphasis is placed on higher-level thinking skills for problem-solving techniques and applying science and mathematical concepts to solve technological problems.

Classroom and hands-on experiences in the Precision Machining program provide the job entry skills needed for numerous areas in virtually every industry worldwide, including, but not limited to, automotive, telecommunications, aerospace, electronics, industrial automation, medical, and farming.

What would I be learning?

- Industrial Safety
- Manufacturing Operations
- Measurement
- Machining with Industrial Milling Machines & Lathes
- Terminology
- Tools & Machine Tools
- Print Reading
- Attention to Detail

Career Name	Average Annual Salary	Education Pathway
Production Machinist	\$41,600	ATCTC Career Technical Program ► Certificate/Associate's Degree
Machinist	\$41,990	ATCTC Career Technical Program ► Certificate/Associate's Degree
CNC Machinist	\$44,825	ATCTC Career Technical Program ► Certificate/Associate's Degree
Tool & Die Makers	\$48,561	ATCTC Career Technical Program ► Certificate/Associate's Degree

UNIQUE OPPORTUNITIES:

Course content reflects the national skills standards of the National Tool and Die Association and the National Institute for Metalworking Skills (NIMS).

An articulation agreement between Allen Thornton Career Technical Center and [Northwest-Shoals Community College](#) allows our students to obtain postsecondary credit while still in high school if they pursue an AOT degree immediately after high school graduation.

Hands-on work experiences and SkillsUSA leadership activities provide many opportunities to enhance classroom and lab experiences and career development.

Industry-Based Credential Opportunities

- Manufacturing Skill Standards Council (MSSC) Certified Production Technician



- The National Institute for Metalworking Skills (NIMS)

