



# MACHINE TOOL TECHNOLOGY

A two-year program based on the National Institute for Metalworking Skills (NIMS) standards and related curriculum.

- Heavy emphasis on high tech equipment and precision in the machining of component parts. Students fabricate component parts to specification using milling, drilling, turning, grinding, and boring machines.
- The program enjoys strong ties with industry partners, resulting in a wide variety of internships and projects both in the classroom and outside on specialized assignments.
- Curriculum includes commencement level math and English language arts.
- All students are given the opportunity to participate in a Work-based Learning experience, which exposes them to the operation of a business and specific job duties related to careers in their CTE area. This internship is designed to connect the skills and knowledge learned in the CTE classroom with the real world requirements of a business.



## Curriculum includes:

- Computer design and programming
- Safety
- Job planning and management
- Blueprint reading
- Quality control and inspection
- Process adjustment and improvement
- General equipment maintenance
- Decision making and problem-solving
- Engineering drawings and sketches
- Precision measurement
- Metalworking theory
- Word address component codes



## Certifications & Endorsements

- Students can take a NOCTI Level I technical endorsement test after two years of class.

## Students who successfully complete the program qualify as:

- Machine Operator
- Entry-level Machinist
- CNC Machine Operator
- Basic Machine Set-up
- Programmer
- Machinist Apprentice

## Employment opportunities requiring further education:

- Machinist - Tool & Die Maker
- Maintenance manager
- Mechanical engineer
- Production manager



CAREER AND TECHNICAL EDUCATION

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