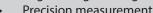
# **MACHINE TOOL TECHNOLOGY**

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

- Core components are Computer-Aided Design (CAD), Computer-Aided Manufacturing (CAM), and Computer Numerical Controlled (CNC) training
- Students learn to use computers for CAD/CAM, Solid Works, Master CAM, CNC programming and operation, operation of conventional equipment, and G-Code Programming
- Students learn advanced math such as geometry and trigonometry
- Heavy emphasis on high tech equipment, programming, and precision machining of component parts
- Students learn computer competency in relation to machining and manufacturing, career management, employee relations, teamwork, interpersonal relations, communication skills, and social skills
- 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 the industry

### **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 problemsolving
- Engineering drawings and sketches
- Precision measurement



- Metalworking theory
- Word address component codes









## **Certifications & Endorsements**

Students can take a test to become certified NIMS Level I

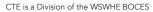
### Students who successfully complete the program qualify as:

- **Machine Operator**
- Entry-level Machinist
- **CNC Machinist**
- Tool and Die Maker

- Set-up
- Programmer
- **Machinist Apprentice**

## **Employment opportunities requiring more skill and further education:**

- Machinist
- Maintenance manager
- Mechanical engineer
- Production manager



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