



# MODERN MACHINE TECHNOLOGY



## LA PORTE COUNTY **CAREER** & **TECHNICAL EDUCATION**

A.K. SMITH CAREER CENTER

Are you into gadgets? Do you love using your brain and your hands? Check out Modern Machine Technology! You'll learn basic mechanics and manual manufacturing techniques — and will operate CNC (computer numerically controlled) and CAM (computer aided machining) equipment in our renovated manufacturing lab. You'll also create projects using a 3D printer and other state-of-the art equipment. Upon completion of the program, you'll be ready for a career in manufacturing or a step ahead for an engineering or technology major in college.

LaPorte County is the air compressor capital of the world! Because of this, Manufacturing is a high wage, high demand career in LaPorte County.

**Earn industry certifications that prepare you for the high-demand precision machining and manufacturing industry!**

**LEARN MORE HERE ►**



## Potential Careers • Modern Machine Technology

<b>Computer-Controlled Machine Tool Operator, Metal or Plastic</b> \$35,650	<b>Tool Setter, Lathe Turning Machine Operator, or Tender for Metal or Plastic</b> \$39,380
<b>Machinist</b> \$40,610	<b>Tool and Die Maker</b> \$51,050
<b>Industrial Engineering Technician</b> \$50,780	<b>Industrial Engineering Technologist</b> \$63,980
<b>Industrial Safety and Health Engineer</b> \$81,760	

### Year One

Learn fundamental machining skills: introduction to shop and tool safety, industrial terminology, hand tools and machine tooling, and measurement and layout. Work on projects to demonstrate understanding of turning, milling, drilling, layout, and grinding.

#### Industry Certifications:

- NIMS Level 1 Measurement, Materials, & Safety Job Planning, Benchwork, & Layout

#### Ivy Tech Dual College Credits:

- MTTC 101 Intro to Machining 3 credits
- MTTC 102 Turning Processes I 3 credits
- MTTC 103 Milling Processes I 3 credits
- MTTC 105 Abrasive Processes I 3 credits
- MTTC 106 Print Interpretation 3 credits
- MTTC 110 Turning and Milling Processes 3 credits

### Year Two

Build on fundamental skills. Key concepts include equipment troubleshooting and maintenance, machining speeds and feeds, interpretation of drawings, CNC machines and equipment, and applying physics and mathematical formulas. Learn to analyze technical problems and think critically.

#### Industry Certifications:

- NIMS Level 1 CNC Setup and Operations

#### Ivy Tech Dual College Credits:

- MTTC 107 CNC Setup & Operations I 3 credits
- MTTC 208 CNC Mill Programming 3 credits
- MTTC 209 CNC Lathe Programming 3 credits

### When You Finish

Earn industry certifications to prepare you for an entry-level position in the high-demand precision machining and manufacturing industry or continue your education in engineering, polytechnics, or another technical field.



## LaPorte County Career & Technical Education

A.K. Smith Career Center

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