



YOUR DOOR TO THE FUTURE



MODERN MACHINE TECHNOLOGY

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.

Potential Careers - Modern Machine Technology

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

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Year One

Modern Machine Technology I teaches fundamental machining skills, including an introduction to shop and tool safety, industrial terminology, hand tools and machine tooling, and measurement and layout. Students work on projects in the manufacturing lab to demonstrate their understanding of turning, milling, drilling, layout, and grinding applications.

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

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Year Two

Modern Machine Technology II builds on fundamental skills from the first-year course. Key concepts include equipment troubleshooting and maintenance, machining speeds and feeds, interpretation of drawings, CNC machines & equipment, and applying physics and mathematical formulas. Year two students 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 & Operation	3 credits
MTTC 110	Turning & Milling Processes	3 credits

When You Finish

Students completing this course will earn industry certifications that prepare them well for an entry-level position in the high-demand precision machining and manufacturing industry. Some students may wish to continue their education in engineering, polytechnics, or another technical field.

LaCrosse | LaPorte | Michigan City | New Prairie | South Central | Westville | New Buffalo



► LaPorte County is the Air Compressor capital of the World! Because of this, Manufacturing is a high wage, high demand career in LaPorte County.



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