



Mobile Machine Tool

Customized Training

Northwood Technical College's mobile machine tool solutions offer customized training courses for businesses of all sizes. Our state-of-the-art equipment allows us to bring the training directly to your facility, so you can enhance your workforce's skills and efficiency without disrupting your operations.

Our courses are designed to meet the specific needs of your employees and can be tailored to your company's production goals. We are committed to equipping your team with the knowledge and expertise required to excel in the rapidly evolving manufacturing industry.

We offer a variety of flexible scheduling options and a wide range of courses, including:

Intro to Manufacturing

- Print Reading for Machine Trades
- Print Reading Foundations
- Interpreting Industrial Prints
- Introduction to Geometric Dimensioning & Tolerancing (GD&T)
- Introduction to Measurement Tools
- Principles of Machining
- G&M Code Basics (Mill)

Expanding Manufacturing Skills

- SolidWorks (CAD) for Beginners
- Mastercam (CAM) for Beginners
- GD&T: Intermediate

Scan the QR-code for more program information



To learn more and schedule training contact

BJ Williams

BJ.Williams@NorthwoodTech.edu | 715.788.7046

NorthwoodTech.edu

Intro to Manufacturing

Print Reading for Machine Trades—1 Credit (32 hours)	Micro-Credentials	Hours
This course introduces fundamental print reading principles, emphasizing the interpretation of standard lines and symbols in single- and multiple-view working drawings. Topics include print reading procedures, drawing changes, machining specifications, and reading prints in specialized areas, such as ANSI and ISO standards. Basic understanding of mathematics concepts is strongly recommended.	Print Reading Foundations	10
	Interpreting Industrial Prints	16
	Introduction to GD&T	6

Course	Hours
Introduction to Measurement Tools: Ideal for manufacturing and precision measurement newcomers, this course provides a comprehensive overview of common measuring tools used in the industry. Learn to recognize and select the right tool for each job, with a strong focus on practical, hands-on experience with scales, micrometers, calipers, test indicators, and the versatile uses of 1-2-3 blocks.	12
Principles of Machining: This theory-based course aims to establish a strong foundation for understanding feed and speed considerations in machining across diverse materials. Dive into essential formulas, calculations, and industry-standard reference materials for CNC mill and lathe programming. Explore key aspects of maintenance, cutting tools, and work holding commonly used in the industry.	12
G&M Code Basics (Mill): Explore commonly used G-Codes and M-Codes, while developing a strong understanding of program structure and formatting. Engage in practical activities by writing and testing programs on Mobile Haas Desktop Mills. Topics covered include part decking, stock squaring, canned cycles, engraving cycles, pocketing, and cutter compensation.	20

Expanding Manufacturing Skills

Course	Hours
SolidWorks (CAD) for Beginners: Get started with Computer-Aided Design (CAD), the foundation of modern manufacturing. In this course, you will enhance your print reading skills by interpreting drawings and generating corresponding parts using SolidWorks software. You'll learn the art of 2D sketching, 3D part modeling, and producing dimensioned drawings for those parts.	20
Mastercam (CAM) for Beginners: Delve into Computer-Aided Manufacturing (CAM), the tool for transforming 3D models into parts through toolpaths and G-Code for CNC Mill or Lathe operations. This course specializes in Mastercam for machining centers (mills). You will acquire the skills to create 2D drawings and import finished 3D models from SolidWorks. Learn to generate toolpaths and G-Code in Mastercam and put them into action with Mobile Haas Desktop Mills.	20
GD&T: Intermediate (Coming in 2024): Note: The beginner micro-credential or equivalent basic knowledge of GD&T is required to ensure understanding of this content. Within the intermediate course, review relevant symbols, terms, rules, & theory around GD&T. Gain insights into advanced concepts including the historical context, single-segment verses composite feature control frames, datums and datum simulators, coordinate tolerance zones verses diametrical zones, issues with traditional +/- tolerancing and streamlining symbols and prints.	16