

American manufacturing relies heavily on CNC machinists in several sectors - aerospace, automotive, healthcare, and defense. There is high demand for new members of the workforce.

The U.S. Bureau of Labor Statistics predicts a **5% growth** in machinist opportunities from 2022 to 2032, higher than the average.

Due to turnover from retirements, there are approximately **44,000 machining jobs** predicted to open up each year.

Why choose a career in machining?

Are you someone who:

- Enjoys working with machinery
- Is interested in tech
- Likes to solve problems?

Machining may be for you!





Counts as first
year of a fully
registered
apprenticeship
program!

Pre-Apprenticeship Program

This program combines four NTMA-U online training courses with supporting reading materials and hands-on exercises, utilizing either physical part or blueprints to reinforce learning outcomes. Designed with flexibility in mind, the course can be successfully completed with minimal resources-only: a textbook, internet enabled device, writing tools, and a workspace are required.

Ideal for schools, training centers, and individuals preparing for entry into formal apprenticeship programs or skilled trades careers.

Students will learn how to:

- Interpret and apply basic blueprint reading techniques
- Perform fundamental shop calculations
- Use manual and electronic measurement instruments accurately
- Understand essential quality control processes and procedures
- Operate basic shop equipment in a safe and effective manner
- Describe common manufacturing processes and their applications

Pre-Apprenticeship Program Courses - 160 Hours

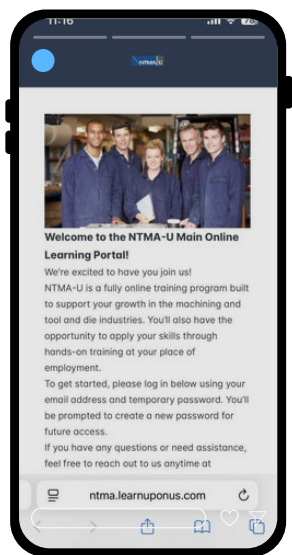
- 1-1100 Basic Blueprint
- 1-1120 Basic Math
- 1-1200 Precision Machining Technology 1
- 4-2900 Quality Control/SPC/Inspection
- CNC Mini Course





What is NTMA-U?

Designed by industry professionals, NTMA-U is the foundation of NTMA's Training and Education program, providing real-world knowledge to students and preparing them to thrive in a fast-evolving industry. Whether you're already in the industry and looking to brush up or learn new skills, or someone brand new to the concept of machining, NTMA-U can fit your needs. Courses can be taken individually or as part of a Department of Labor-approved, registered apprenticeship program that serves the entire U.S. manufacturing sector.



NTMA-U is designed with students in mind first.

Our newly redesigned interface runs smoothly on **any smart phone, tablet, or other device** - so you can do your coursework on the go!

Anytime, anywhere

Our flexible design is perfect for students who work full-time, are caregivers, etc. Learning new skills and entering a new industry should be possible for everyone.

