



MACHINING & WELDING TECHNOLOGIES

Share Time Program for High School Junior and Seniors

The Machining and Welding Technologies program exposes students to the essential concepts and principles of welding, fabrication and machine shop principles and concepts. Students learn the knowledge and skills required to perform the functions of a welder, including mig, tig, and stick welding processes, print interpretation, thermal cutting processes, hydraulic metal shear, and metric and standard measurements. Students will have the opportunity to earn AWS Student Certification and upon program completion, advance their studies through participation in the program at Morris County Vocational School District's Continuing Education Department. An articulation agreement provides students with the opportunity to begin the post-secondary program with advanced standing.

PROGRAM OVERVIEW

- Tool and Shop Safety
- Gas Metal Arc Welding (MIG)
- Flux Core Metal Arc Welding
- Shielded Metal Arc Welding
- Gas Tungsten Arc Welding (TIG)
- Air Carbon Arc Cutting
- Plasma Arc Cutting
- Print and Drawing Interpretations
- Oxy/Fuel Cutting System
- Fabrication
- Machine Shop Concepts:
 - Operating
 - Milling
 - Machine Surface Grinders
- Applied Math Concepts
- Applied Science Concepts
- OSHA 10 Training and Certification
- American Welding Society (AWS) Student Certification
- **HIGH SCHOOL CREDITS EARNED:**
 - Career and Technical Education Program = 20 Credits
- **Students who meet the NOCTI criteria may earn college credits.**

Students will be required to:

- Read and comprehend information on the high school level
- Use metric and standard measurements
- Initiate tasks independently based on curriculum
- Follow multi-step directions
- Work in accordance with safety procedures when using flammable and/or potentially dangerous materials

STUDENTS WHO COMPLETED THE WELDING TECHNOLOGIES PROGRAM

pursued post-secondary education and/or employment as manufacturers, welders, fitters, machinists, and fabricators.

ALL INQUIRIES PERTAINING TO PRE-ADMISSION SHOULD BE SUBMITTED TO

Gina DiDomenico, Student Recruitment and Community Relations

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