

WELDING TECHNOLOGY



GO BEYOND the CLASSROOM

Our welding technology program is designed to meet the present and future needs of the welding industry. Students will build and troubleshoot complex manufacturing solutions using advanced welding techniques. This program is ideal for students who in enjoy critical thinking and want to learn how to interpret drawings for product fabrication. Students will be creating and fabricating customized metalwork.

WHAT THIS CURRICULUM TEACHES

- Performing multiple type of welding techniques
- Learn appropriate welding type and equipment based on metal properties
- Emphasis on electrode selection, equipment set-up, operating procedures and quality control
- Metal Fabrication by cutting, drilling, bending and shaping to drawing dimensions
- Learn joint designs and layouts
- Welding codes and standards
- Learn quality practices, measurement, maintenance and safety

SKILLS LEARNED

- Manufacturing Operations
- Gas Tungsten Arc Welding (GTAW)
- Shielded Metal Arc Welding (SMAW)
- Gas Metal Arc Welding (GMAW)
- Flux Corded Arc Welding (FCAW)
- Welding Fundamentals and Safety
- Gas Cutting, Soldering, and Brazing
- Project Building

CERTIFICATIONS FOR QUALIFYING STUDENTS

- Industry Credential: American Welding Society (AWS)

BEGIN THE PATHWAY TO THE WORLD OF WELDING AND METAL FABRICATION

CAREERS OUTLOOK FOR THE WELDING FIELDS

- Beginning median salary of \$42,490 or \$20.43 per hour as a welder, cutter, solderer and brazer
- Direct pathway into the workforce for several careers including: Boilermakers (\$63,100, 6% job growth); Plumber, Pipefitter & Steamfitter (\$55,160; 14% job growth); Sheet Metal Workers (\$50,400, 8% job growth)
- Apprenticeships are preferred in some fields, however technical training and education are required
- Must-haves for this career path include: Detail oriented; Dexterity; Math skills; Mechanical skills; Physical stamina; Physical strength

CAREER PATHWAYS

This is the program for you if you want to work as a/an:

- Welders, Cutters, Solderers, and Brazers
- Assemblers and Fabricators
- Boilermakers
- Jeweler, Precious Stone, and Metal Workers
- Sheet Metal Workers

With further education or training you can become a:

- Weld Engineer
- Machinists and Tool and Die Makers
- Metal and Plastic Machine Workers
- Plumbers, Pipefitters, and Steamfitters

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Ashland County-West Holmes
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