



Welding Technology

Welding is the foundation of all building, and in this pathway, welding students learn the skills to achieve success in the real world. Metallurgy, blueprint reading, fabrication of metal, sanding and grinding, oxy/fuel cutting, hand-held plasma cutting and CNC plasma cutting are just a few of the skills to be mastered. Welders can find career opportunities in areas such as engineering, robotics, education and project management.



◆ Course Sequence

1. Shielded Metal Arc Welding
2. Gas Metal Arc Welding
3. Gas Tungsten Arc Welding
4. Flux Cored Arc Welding

◆ College Credit Opportunities

- Blueprint Reading
- Flux Cored Arc Welding
- Gas Metal Arc Welding
- Material Science
- Principles of Welding with Welding Laboratory
- Shielded Metal Arc Welding
- Tungsten Arc Welding

College Credit Plus general education and other dual credit courses are also available.

◆ Industry Credentials

- AWS Certified Welder Program
- OSHA-10

Pathway Promise: Scholars that successfully complete this pathway will be prepared with industry credentials, college credits, and community experiences that support their future aspirations.



**College & Career
Academies**

AKRON PUBLIC SCHOOLS

EAST

Welding Technology

Entry-Level Careers

- Aluminum Railing Welder
- AWS Welding Technician
- Cutter/Solderer/Brazer (Ships)
- Fabrication Shop Welder
- Jewelry Maker
- Machinist
- MIG/TIG Entry-Level Welder
- Military Service Enlisted Welder
- Production Welder
- Sheet Metal Worker
- Steam Fitter
- Trailer Manufacturing Welder

Technical Careers

(Advanced certification, Apprenticeship, or Associates Degree)

- Blueprint Designer/Reader
- Certified Radiographic Interpreter
- Certified Welding Inspector
- Cutting Specialist (Demolition Crew)
- Hyperbaric Welder
- Journey-Level Pipe Welder
- Laser Welding Technician
- Non-Destructive Test Administrator
- Project Manager (Foreman)
- Robotic Weld Operator/Technician
- Structural Metal Fabricator
- Welding Equipment Salesperson

Professional Careers

(Bachelor's Degree or higher education)

- Aircraft Welder
- Certified Pipe Welder
- Company Owner/Entrepreneur
- Corrosion & Materials Engineer
- Dry Underwater Welder
- Fabrication Shop Superintendent
- Instructor
- Manufacturer Sales Representative
- Metallurgical Engineer
- Oil Pipeline Fabricator
- Structural Engineer
- Welding Engineer