

WELDING & SHEET METAL FABRICATION

This course focuses upon specialized classroom and shop-learning experiences that are concerned with all types of metal welding, brazing and flame cutting. It is helpful for new students to have a good background experience in mathematics and mechanical drawing. This program participates in Level 1 of the American Welding Societies SENSE Program (Schools Excelling Through National Skill Standards Education).

Curriculum Highlights:

- Basic safety
- Air carbon cutting
- Blueprint reading
- CAD/CAM applications
- Communication skills
- Electrical principles
- Hand tools and power tools
- Industry mathematics
- Joint fit-up and alignment
- Mechanical drawing
- Plasma arc cutting
- Properties of metals
- Sheet metal layout and principles
- FCAW—Flux Core Arc Welding
- GMAW—Gas Metal Arc Welding
- SMAW—Shielded Metal Arc Welding
- GTAW—Gas Tungsten Arc Welding on Aluminum, Plate, Equipment

Career Center benefits

- Apprenticeship opportunities
- Certifications
- Field trips to industries
- Job placement
- SkillsUSA club offers skills and leadership

Potential Annual Salary*

Structural iron and steel workers: \$11.25–\$33.53 per hour
 Welding, soldering, and brazing machine setters, operators, and tenders: \$9.63–\$23.54 per hour

**Occupational Outlook Handbook, U.S. Department of Labor, Bureau of Labor Statistics 2006-07*



Career Opportunities

- Aircraft Welder
- Arc or Gas Welder
- MIG or TIG Welder
- Layout Technician
- Metal Fabricator
- Robotic Welding
- Welding Technician
- Welding Engineer

ADVANTAGES!

Career Center Academic Options	Professional Certification	College Connections
English 11 & 12 Geometry Algebra II Pre-Calculus Statistics Biology Chemistry Environmental Science Principles of Technology American History U.S. Government Economics Psychology Sociology	American Welding Society (AWS)	Columbus State Community College The Ohio State University Apprenticeship

For more info, contact Instructor: laslos@DelawareAreaCC.org
 Supervisor and Apprenticeship Coordinator: parling@DelawareAreaCC.org