



Welding



Build your career today!

The welding program is designed to develop skills in all areas of welding and metal fabrication, but most specifically those areas where there is the greatest employment potential.

College Articulation Agreements

Alfred State School of Applied Technology

Mohawk Valley Community College

Dual Credit

Niagara Community College



Welding

The welding program is a two-year program for juniors and seniors. This program is designed to develop skills in all areas of welding and metal fabrication, but most specifically those areas where there is the greatest employment potential. This two-year program will ensure good working skills in welding. Approximately one-quarter of the course is devoted to metal fabrication methods and production of welded items.

Objectives

1. Learn safe and sound procedures.
2. Develop and acquire skills and concepts.
3. Select and utilize a wide variety of measuring and blueprint reading.
4. Understand the usage of metallurgy and the science of metal.
5. Assist in developing acceptable work habits and attitudes.
6. Develop job-seeking skills necessary to succeed in the world of work

Units of Study

First Year: Shop Safety, Oxy-Acetylene Welding, Cutting and Brazing, Basic Arc Welding, Measurement and Basic Blueprint Reading, Basic Welding Inspection, Discontinuities/Defects, Hand Tools, Set Up Operations, Basic MIG Welding with common Joints, Basic Metallurgy, CNC Plasma Cutting.

Second Year: Review of the First Year, Welding and Cutting Safety, Gas Tungsten Arc Welding (TIG) of steel, Aluminum and Stainless Steel, Gas Metal Arc Welding (MIG) Steel and Aluminum, Welding Inspection (interpret weld discontinuities/defects), Department of Transportation Welding Test Certification, American Welding Society Entry-Level Certification, Basic Rigging, Flux-Core Welding, Advance Shielded Metal Arc Welding (Stick), Pipe Welding, Metal Fabrication, Metallurgy, Blueprint Reading, Plasma Arc Cutting.

How to Enroll

Orleans/Niagara BOCES partners with local school districts to provide exciting hands-on career and technical training during normal school day. To learn more, speak with your high school counselor.

NYS Approved Program Title & CIP Code

Welding Technology/Welder – 48.0508

Contact Information	Possible Career Paths
<p>Orleans Career and Technical Education Center 4232 Shelby Basin Rd., Medina, NY 14103</p> <p>Niagara Career and Technical Education Center 3181 Saunders Settlement Rd., Sanborn, NY 14132</p> <p>Teachers</p> <hr/> <p>Eric Farrell efarrell@onboces.org Ron Jackson rjackson@onboces.org Steve Frey sfrey@onboces.org Mike Tolli mtolli@onboces.org</p>	<ul style="list-style-type: none">• With a 2 year CTE program: Welders, Cutters, Solderers, and Brazers, increased demand 3%*• Associate's Degree: Commercial Welding Diver, increased demand 9.5%*• Bachelor's Degree: Mechanical Engineers, increased demand 4%* <p style="text-align: right;"><i>*Projected national growth for 2018-2028, US Bureau of Labor Statistics</i></p>