



Welding

2-Year Program

Plattsburgh Learning Hub

While performing extensive hands-on work, students will learn welding techniques in gas metal arc welding, gas tungsten arc welding, shielded metal arc welding, plasma arc cutting, and oxyacetylene brazing and cutting in a state-of-the-art lab. These processes will be learned on steel, stainless steel and aluminum metals. Students will learn to process work orders, identify the correct repair procedure, and perform new material layout and fabrication from a blueprint. Upon completion of this course students will be prepared to take a variety of welding certification tests.



Program Highlights

- American Welding Society (AWS)
 - Nationally-recognized "Sense" Program
- Curricula Preparing Both Certified Entry Level and Certified Advanced Level Welders
- Classes Taught by Nationally Certified Welding Educator and Welding Inspector
- Students Learn How to Weld Steel, Aluminum, and Stainless Steel in all Welding Positions
- Types of Welding Taught:
 - Gas Metal Arc Welding
 - Shielded Metal Arc Welding
 - Gas Tungsten Arc Welding
 - Flux Cored Arc Welding

Career Connections

- Welding Technician
- Steel Fabrication
- Engineer
- Certified Welding Instructor
- Certified Welding Inspector
- Manufacturing
- Union Iron Worker
- Pipefitter
- CNC Machine Operator
- Welding Supply Sales
- Entrepreneur
- Welding Inspection & Quality Control

Articulation Agreements

- Clinton Community College
- Alfred State
- SUNY Canton
- Lincoln Technical Institute
- Mohawk Valley
- SUNY Delhi

Certifications

- American Welding Society (AWS)
- NWRC/21st Century Skills

Course of Study

Shielded Metal Arc Welder

- Structural Steel 3/16" - 1"
- Use of All Four Electrode Groups
- All Position Groove and Fillet Welds
- AWS Workmanship Qualification Testing

Gas Tungsten Arc Welder

- Aluminum, Steel and Stainless Steel Welds
- Fillet and Groove Welds in all Positions
- AWS Workmanship Qualification Testing

Welders Helper

- Oxy-Acetylene Welding, Cutting and Brazing
- Use of Measurement Tools
- Plasma Cutting
- Track Torch Operator

Gas Metal Arc Welder

- Fillet and Groove Welds All Positions
- Short Circuit Transfer Mode
- Spray Transfer Mode
- AWS Workmanship Qualification Testing

Flux Cored Arc Welding

- Structural Steel Welding from 1/4" - 1"
- Fillet and Groove Welds in all Positions
- AWS Workmanship Qualification Testing

Weld Fabricator

- Blueprint Reading
- Weld Symbols
- Completion of all the Workmanship Qualification Testing to earn AWS Certified Entry Level Welder Certification

