

MANUFACTURING ACADEMY



The Manufacturing Academy provides students with opportunities to engage their minds and test their skills. This Academy prepares students for post-secondary education and employment in the high-demand field of manufacturing. Manufacturing careers vary by industry and skill level. Welding Technology career preparation teaches students Gas Metal Arc Welding, Gas Tungsten Arc Welding, CNC plasma arc technology, blueprint reading, layout, fabrication of light and heavy gauge metals, shielded metal arc welding, soldering, brazing, oxygen/acetylene welding and cutting. Students will receive highly skilled hands-on experience that prepares them for real-world work, with training in the industry's most in-demand welding techniques. Students work with industry-level tools to complete challenging projects that involve welding and fabricating using state-of-the-art equipment to industry-certified standards, making their skills transferable and valuable to many industries.

Future Careers

- CNC Programmer
- Fabricator
- Industrial Engineer
- Industrial Machinery Mechanic
- Machine Operator
- Machinist
- Welder

Students in this Academy will be prepared for high-demand, entry-level employment in welding. Welders work in a variety of manufacturing environments.

Manufacturing Pathway

Students in this pathway are required to complete the following courses:

- Technical Drawing and Engineering Design
- Beginning Welding
- Welding Technology 1
- Welding Technology 2

In addition, a minimum of two courses are recommended from the list below:

- Electrical Applications
- Small Engine Repair
- Microsoft Office Applications
- Cooperative Education/Work Experience

