The two-year Welding program is based on the American Welding Society (AWS) curriculum, which provides broad exposure to the operation, standards, and current practices in the field of welding and metal fabrication. Students learn and have hands-on practice with a variety of welding techniques including MIG, TIG, and stick. Students work with metal preparation, torch and plasma cutting, reading schematics, and using different power tools. The content and hands-on experience prepares students with the foundation for different careers in welding and metal fabrication.

**Characteristics for Success:**
- A strong interest in some or all course material
- Likes to problem solve and design solutions
- Excellent attendance
- Parental support of the career and Welding/Metal Fabrication program

**Recommended Home School District Courses:**
- Design and Drawing Production
- Physics
- Chemistry

**Topics Covered:**
- Safety
- Oxy Fuel Gas Welding
- Metal Preparation
- Shielded Metal Arc Welding (MIG)
- Blueprint Reading
- Welding Symbols
- Plasma Arc Cutting
- Gas Tungsten Arc Welding (TIG)
- Metal Fabrication
- Layout and Design

**College Credit Available From:**
- SUNY Delhi
- SUNY Alfred

**Related Career Opportunities:**
- Construction Worker
- Custom Fabricator
- Military
- Pipefitter
- Underwater Welder
- Welder: Bridge, Aerospace, Shipyard, Aircraft, and Rail Road Construction Industries
- Welding Equipment Sales

**Industry-Based Certifications (attainable through program):**
- Occupational Safety and Health Administration (OSHA) Safety Certification (10 hour)

**Technical Assessment:**
- Skills USA Welding Assessment
  *Pass ALL three parts of the technical assessment: written, performance and portfolio*

**Available Academic Credits:**
- Math 11 (1 credit)
- Science 11 (1 credit)
- English 12 (1 credit)
- Career and Financial Management (1/2 credit)

For more information on the availability of this option, please contact your home school counselor.

CONTACT INFORMATION:
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