

For
Welding Technology

- Perform mathematical computations including: addition, subtraction, multiplication, division, conversions from fraction to decimal, percentages, volume, area, mass, Pi, and square root.
- Use appropriate interpersonal skill in a diverse work group and demonstrate sensitivity in ethnic and cultural relations.
- Perform an entry level welding using the following: Shielded Metal Arc, Gas Metal Arc, Gas Tungsten, Flux Cored Arc, and Submerged Arc Welding.
- Read blue prints, welding symbols, shop sketches and drawings, job orders, material specifications, instruction manuals, MSDS's and safety warning labels.
- Recognize physical, mechanical, electrical, and chemical hazards and the safe operation of tools and equipment. Identify the safety features of the apparatus, power tools and equipment.
- Pass a guided bend test in accordance with the AWS Structural Welding Code. Understand weld testing, inspection, and welder qualification testing.
- Weld carbon steel, aluminum, and stainless steel welder qualification test specimens.
- Develop a work ethic, time management skills and leadership skills.