Welding Technology prepares individuals to apply technical knowledge and skills to join or cut metal surfaces. Includes instruction in arc welding, resistance welding, brazing and soldering, cutting, high-energy beam welding and cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, welding metallurgy, welding processes and heat treating, structural design, safety, and applicable codes and standards.¹

The Welding Technology program provides students with entry- and advanced-level employment skills in welding and metalworking techniques that are relevant to the needs of local employers and industries. The program provides training in a variety of welding methods including SMAW, GTAW, GMAW and FCAW. Advanced level courses in plate and pipe welding prepare students for AWS welding certification testing. The program offers courses in Sheet Metal Fabrication and Welding Fabrication that focus on print reading and metalworking skills. In addition courses are offered in Architectural/Ornamental Ironwork fabrication and Toolmaking and Hard facing techniques that are used in the construction and agriculture industries.

Degree Options at Hartnell:

- Associate of Science Degree in Welding Technology
- Certificate of Achievement in Welding Technology

Related
- Welder
- Cutter
- Aerospace
- Agriculture
- Automotive Manufacture and Repair
- Chemical Processing
- Construction
- General Manufacturing
- Oil and Gas Extraction
- Plumbing and Pipe Welding
- Underwater Welding
- Construction

Related Skills
- Production and processing
- Design
- Administration and management
- Mechanical
- Mathematics
- Critical thinking
- Operations and control
- Monitoring
- Reading comprehension
- Active listening
- Speaking
- Operation monitoring

¹http://www.cacareerzone.org/majors/detail/48.0508