Our professional millwrights use welding skills on the job for:
- maintenance and repair
- new construction

Having millwrights properly trained and qualified in welding saves our signatory contractors both time and money.

Apprentices and journey-level millwrights receive welding training on state-of-the-art equipment. Everything is taught in accordance with American Welding Society (AWS) standards and codes.

**Welding and Cutting**
- Introduction to welding and cutting
- Welding and cutting safety
- Welding equipment
- Weld symbols/blueprint reading
- Metallurgy
- Oxy-fuel safety
- Oxy-fuel cutting
- Plasma Arc cutting
- Carbon Arc cutting
- Shielded Metal Arc Welding (SMAW)
- Gas Metal Arc Welding (GMAW)
- Gas Tungsten Arc welding (GTAW)

**Welding: Basic**
*16-40 hours (varies by Training Center)*
Covers oxy-acetylene torch cutting and shielded metal arc welding. Includes discussion on theory, safety and practical uses of welding. E-6010, E-6013 and E-7018 electrodes, and various joint and joint preparations will be used for the arc welding portion. Designed primarily for the beginner, but can accommodate more advanced welders looking to hone their skills for certification.

**Welding: Advanced**
*16-40 hours (varies by Training Center)*
Places greater emphasis on out-of-position carbon steel welding with shielded-metal arc process. Covers some theory and various joint and joint preparations. Different types of metal used include mild steel, aluminum and stainless steel.

**Welding: AWS Certifications**
Our training centers offer a number of welding qualifications, including 1-inch plate unlimited all position, and light gauge 18 to 11 gauge.

Through our training program, millwrights can qualify at all positions. To receive certification, their welds must pass visual, bend and micro-etch tests in accordance with AWS specifications.

The North Central States Regional Council of Carpenters has trained American Welding Society (AWS) Certified Welding Inspectors on staff who will certify millwright welders at no cost to our signatory contractors.

We are available to assist millwrights who need direction on AWS compliance or who require welding certification.