



# WELDING & MANUFACTURING TECHNOLOGY

The American Welding Society currently estimates there is a shortage of 400,000 qualified welders in the United States. Our welding program prepares students with practical skills related to processes involving drafting, metalworking, welding and machine tool industries. This program covers basic through advanced welding and thermal cutting processes with a strong emphasis on fabrication and manufacturing techniques and procedures. Students completing this program have a strong foundation of skills for employment and for post-secondary training.

## COURSE CONTENT

- > Quality Control
- > Metal Fabrication
- > Blueprint Reading
- > Shield Metal Arc Welding
- > Gas Metal Arc Welding
- > Gas Tungsten Arc Welding
- > Oxy-Fuel Cutting/Plasma Cutting
- > Equipment Operations
- > Linear and Precision Measurement
- > Use of Welding & Metal Working Equipment
- > Operation of CNC Controlled Cutting Equipment



## SPECIAL CLASS FEATURES

Complete hands-on projects

Participate in Welding Fabrication competition

AWS Welder Certification

Collaborate on projects with community agencies

Senior Math credit and VPAA credit in Metals II

College Articulation

Employment Ready

## EMPLOYMENT SKILLS FOR THE FUTURE

High Wages

Guaranteed Employment in the field

