First Semester - 18 SCH

WLDG 1307 - Intro to Welding Using Multi-processes
WLDG 1313 - Intro to Blueprint Reading for Welders
WLDG 1417 - Intro to Layout and Fabrication
WLDG 1428 - Intro to Shielded Metal Arc Welding
WLDG 1457 - Intermediate Shielded Metal Arc Welding

Marketable Skills

Math skills; time and materials management; ability to acquire and evaluate information; interpret and communicate information; oral and written communications skills; computer skills; teamwork; cultural diversity; apply technology to work; creative thinking; decision-making; problem-solving; self-management; construction and industrial safety; oxy-fuel welding and cutting; power sources; electrode selection; shielded metal arc welding; gas metal arc welding and cutting; gas tungsten arc welding; flux-cored arc welding; blueprint reading; measurement; welding codes and standards; layout and fabrication; fillet welds; V-groove welds; plate welding; pipe welding; and 1G, 2G, 5G, 6G positions.

Program Outcomes

• Students earning the Structural Steel Welding certificate will demonstrate proficiency by taking the American Welding Society Certification Test (3G) on plate using SMAW welding process.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn $36,210; 10% of workers earn $27,030 or less; 10% of workers earn $53,290 or more.

Additional Education Opportunities

Associate of Arts in Applied Science; Bachelor of Arts in Applied Science

Career Opportunities

Blueprint reading; layout, cutting and fitting parts; tack and production welding; finishing and material handling; welding fabricators; shop supervisors; estimators and shop owners; pipe welder; and structural steel welder.