



# Pipe Welding

Certificate (42 SCH\*)

\*Semester Credit Hour

5/2024

## First Semester - 17 SCH

WLDG 1323 - Welding Safety, Tools, and Equipment  
WLDG 1425 - Introduction to Oxy-Fuel Welding and Cutting  
WLDG 1307 - Introduction to Welding Using Multiple Processes  
WLDG 1313 - Introduction to Blueprint Reading for Welders  
WLDG 1457 - Intermediate Shielded Metal Arc Welding

## Second Semester 16 SCH

WLDG 1427 - Welding Codes and Standards  
WLDG 1434 - Intro to Gas Tungsten Arc Welding  
WLDG 1435 - Introduction to Pipe Welding  
WLDG 2413 - Intermediate Welding Using Multiple Processes

## Third Semester - 9 SCH

WLDG 2451 - Advanced Gas Tungsten Arc Welding (GTAW)  
WLDG 2553 - Advanced Pipe Welding

## Marketable Skills

Teamwork; cultural diversity; apply technology to work; creative thinking; decision-making; problem-solving; 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 Pipe welding certificate will demonstrate proficiency by taking the American Society of Mechanical Engineers section IX test (6G) on 5" pipe using SMAW welding process.

## High School Endorsements

Business and Industry

## Additional Education Opportunities

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

## 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.

## 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.