



# Structural Steel Welding

Certificate (18 SCH\*)

\*Semester Credit Hour

7/2023

## First Semester - 18 SCH

WLDG 1323 - Welding Safety, Tools, and Equipment

WLDG 1425 - Introduction to Oxy-Fuel Welding and Cutting

WLDG 1407 - Introduction to Welding Using Multiple Processes

WLDG 1313 - Introduction to Blueprint Reading for Welders

WLDG 1457 - Intermediate Shielded Metal Arc Welding

## Marketable Skills

Teamwork; cultural diversity; apply technology to work; construction and industrial safety; oxy-fuel welding and cutting; power sources; elec-trode selection; shielded metal arc welding; gas metal arc welding and cutting; gas tungsten arc welding; flux-cored arc welding; blueprint reading; measurement; layout and fabrication; fillet welds; V-groove welds; plate welding; pipe welding; and 1G, 2G, 3G 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; and structural steel welder.