



Location: Signal Peak Campus

Certificate: Advanced Structural Welding and Fabrication

CONTACT:

itst.advisor@centralaz.edu

Program Description: The Advanced Structural Welding and Fabrication Certificate increases students' exposure and skills needed for the structural welding industry. Students complete courses to complete the Fundamentals of Structural Welding Certificate and in the Spring semester are introduced to Shielded Metal Arc Welding and thermal cutting processes needed for steel fabrication. AWS D1.1 Structural Steel welding code certifications are achievable during course WLD229 towards the end of the semester. WLD128 provides students with an introduction how to read and draw welded assembly drawings and also provides students with basic Computer Aided Design skills as they pertain to the steel industry.

Use this Program Map as a guide to choose courses with your advisor and track progress toward milestones and completion of program. Work with an advisor to customize your plan to align with your specific career and/or transfer goals.

Note: Prior learning, equivalent credit or documented industry experience may replace the required courses in Fall semester needed to complete the Fundamentals of Structural Welding certificate.

Prerequisite: Students must first complete Fundamentals of Structural Welding Certificate.

SEMESTER BY SEMESTER PROGRAM PLAN FOR FULL-TIME STUDENTS

Plans can be modified to fit the needs of part-time students by adding more semesters

Table with 4 columns: Semester (SPRING ONLY), Credit Hours, and two empty columns for tracking. Rows include: Fundamentals of Structural Welding Certificate (must be completed first), WLD128 Introduction to Structural Drawings and CAD (4), WLD129 Intro to Shielded Metal Arc Welding and Thermal Cutting Processes (6), WLD229 Advanced Shielded Metal Arc Welding (6), and Semester Credits: 16.

Total Program Hours: 16

Total program cost, including tuition, books and fees is approximately \$2,350. Financial aid may be available.

CAREER INFORMATION

A typical graduate seeks employment in mining, steel fabrication, and steel erection industries. After completing the Advanced Structural Welding and Fabrication certificate, graduates can expect to make \$14-\$18 per hour in the industry as a welder's helper or entry level welder. Students are encouraged to continue with the welding program to obtain the Structural Welding Technology AAS degree. If you are interested in pursuing an AAS degree in welding, review those degree maps and talk to an advisor.

As part of Central Arizona College's TRUE Learning Community, our Career & Transfer Center supports students in achieving their goals through career development and/or transfer to a four-year institution. For more information, visit CAC Career & Transfer Center at centralaz.edu/transfer.