

PIPE FITTING, CAREER PATHWAY CERTIFICATE OF COMPLETION

The Career Pathway Certificate of Completion: Pipe Fitting prepares students for entry-level careers in pipe fitting, welding and fabrication. The program also introduces advanced techniques aligned with industry API and AWS standards.

Click here (<https://www.socc.edu/pathways/roadmapsaz/148-welding-and-fabrication-roadmap>) to learn how this Career Pathway certificate can lead to an Associate of Applied Science Welding and Fabrication.

Entry Requirements

Students are required to complete the College's placement process to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill level as determined by the placement process.

Because a variety of working conditions exist in the welding field, a person generally should be in good physical condition and able to stand, stoop, kneel and bend without difficulty and be able to lift and carry at least 50 pounds. Good eyesight, especially depth perception, is necessary for a welder.

By the second week of the term, students will need to purchase the proper PPE (personal protective equipment) required for the term. Required PPE includes: Welding hood, leathers or welding jacket, gauntlet gloves, safety glasses (clear and shade 5), and leather boots (steel toe is preferred).

Graduation Requirements

Students must complete a minimum of 12 credit hours with a minimum Grade Point Average (GPA) of 2.0 or better. All courses in this program must be completed with a 'C' or better. One course must be completed at Southwestern before the Career Pathway Certificate of Completion: Pipe Fitting is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

Pre-Program Courses

Students are required to take the following courses *prior* to the program courses, depending on students' college placement information. See advisor for details:

Code	Title	Credits
WLD100	Welding Process I	3
WLD101	Shielded Metal Arc Welding	6
WLD105	Pipe Fitting and Welding I	3

Program Guide

Course	Title	Credits
First Year		
Fall		
WLD201	Pipe Fitting and Welding II	3
	Credits	3
Winter		
WLD4152	Advanced Pipe Fitting and Fab	3
	Credits	3
Spring		
WLD4050	Welding and Joining Processes	3
WLD4153	Pipe Fitting Workshop:	3
	Credits	6
	Total Credits	12

Program Student Learning Outcomes

Upon successful completion of this program the student will be able to:

- Demonstrate ability to fit, layout, and weld pipe in accordance to industry AWS and API standards.