

## CAREER PATHWAY CERTIFICATE OF COMPLETION: WELDING ASSISTANT



The Welding and Fabrication: Career Pathway Certificate of Completion: Welding Assistant prepares students for entry-level jobs in a welding operation as a welder's assistant. Required courses are applicable toward the Associate of Applied Science degree in Welding and Fabrication.

### PROGRAM STUDENT LEARNING OUTCOMES

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

- Assist with set up and operation of manual and semi-automatic welding and cutting equipment used in the metal fabrication industry.
- Perform rudimentary layout and fabrication skills to help produce welded metal parts.
- Read and interpret simple blueprints and some American Welding Society standard welding symbols.

### ENTRY REQUIREMENTS

Students are required to take the college placement test 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 college placement test scores.

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.

### GRADUATION REQUIREMENTS

Students must complete a minimum of 18 credit hours with a minimum Grade Point Average (GPA) of 2.0 (C) average or better. All courses in this program must be completed with a 'C' or better. Nine (9) of the last 12 credits must be earned at Southwestern before the Welding and Fabrication: Career Pathway Certificate of Completion: Welding Assistant is awarded.

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

FALL = 6 CREDITS

**WLD4010 (3)\***  
Welding Process I

**WLD4061 (3)\***  
Shielded Metal Arc  
Welding I

**WLD4062 (3)\***  
Shielded Metal Arc  
Welding II

WINTER = 12 CREDITS

**WLD4165 (3)\***  
Welding Lab A

**WLD4125 (3)\***  
Gas Metal Arc Welding

**WLD4126 (3)\***  
Flux Cored Arc Welding

**18 CREDITS = TOTAL PROGRAM REQUIREMENTS**