

Welding, Certificate

Plan 995

Purpose

This program is designed to prepare students to work as welders in industry and to provide them with an introduction to the various types of equipment and materials used in welding. AWS, ASME, and other certifications are also available.

Students enrolled in the Career Studies Certificate program may apply all credits earned to the college's Certificate in Welding and *anticipated* AAS degree in Technical Studies: Welding.

Program Requirements and Special Conditions

Students must meet ESCC admission requirements. Students must also complete placement tests (or equivalent) in English and mathematics, and scores will be used for appropriate course placement. If Students have deficiencies in English and/or mathematics, ESCC offers developmental and prerequisite courses to prepare students for the curriculum. New students should see a counselor and returning students their advisor for more information.

Program Learning Outcomes

Students will be able to:

- Demonstrate proficiency in the use of welding tools.
- Safely perform welding techniques using fillers, wires, fluxes, and gases.
- Read and interpret blueprints in the welding industry.

Program Curriculum and Suggested Sequence of Courses

| 1st Semester | Credits | Course Details |
|-------------------------------------------------------------------------------|----------------|-----------------------|
| ENG 111 College Composition I | 3 | |
| MTH 111 or MTH 130 (Basic Technical Mathematics or Fundamentals of Reasoning) | 3 | |
| SDV 101 Orientation to Welding | 1 | Alternative SDV 100 |
| WEL 123 Shielded Metal Arc Welding (Basic) | 4 | |
| WEL 160 Gas Metal Arc Welding | 4 | |
| <i>Total Credits</i> | 15 | |
| 2nd Semester | Credits | Course Details |
| WEL 124 Shielded Metal Arc Welding (Advanced) | 4 | |
| WEL 130 Inert Gas Welding | 4 | |
| WEL 141 Welder Qualification Test I | 4 | |
| WEL 150 Welding Drawing and Interpretation | 3 | |
| <i>Total Credits</i> | 15 | |
| Total Credits For Program | 30 | |