

Occupational Endorsement Certificate in Welding

This Occupational Endorsement Certificate (OEC) provides the foundational skills required for entry into the welding industry. Courses focus on SMAW, GMAW, GTAW and FCAW in all positions. The courses are aligned with standards established by the American Welding Society (AWS) and American the American Society for Mechanical Engineers (ASME). Additionally, each course is embedded within the Associate of Applied Science option, so students can transfer each of these classes toward the Associate of Applied Science in Welding and Nondestructive Testing Technology.

Admission Requirements

- Complete the Admission Requirements for Occupational Endorsement Certificate Programs (<http://catalog.uaa.alaska.edu/academicpoliciesprocesses/admissions/undergraduate/>).

Graduation Requirements

- Complete the General University Requirements for Occupational Endorsement Certificates (<http://catalog.uaa.alaska.edu/undergraduateprograms/oecrequirements/>).
- Students must pass at least one industry-recognized welder certification.
- Pass one welding process qualification test.
- Complete the following major requirements:

| Code | Title | Credits |
|---------------------------|--|-----------|
| WRTG A110 | Introduction to College Writing | 3 |
| WELD A101 or WELD A295 | Introduction to Welding Welding & Nondestructive Testing Internship | 3 |
| WELD A112 | Shielded Metal Arc Welding (SMAW) | 4 |
| WELD A157 | Technical Drawings for Welders | 3 |
| WELD A161 | Gas Metal Arc Welding (GMAW) | 3 |
| WELD A162 | Flux Cored Arc Welding (FCAW) | 3 |
| Total | | 19 |

A minimum of 19 credits is required for the degree.

Program Student Learning Outcomes

Upon completion of this OEC, students will demonstrate:

- Demonstrate hazard assessment and best safety practices
- Demonstrate entry-level technical skills in welding
- Demonstrate introductory knowledge of the interrelationship between metallurgy and welding
- Demonstrate effective oral and written communication

- Demonstrate application of mathematical formulas as applied in the welding field