



Degree Guide:

Welding Technology, Associate in Applied Science (AAS) Degree

Program

[Welding \(WELD\)](#)

Degree Type

Professional Technical Degree

Program Coordinator

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Program Description

This two year competency based program leads to an Associate in Applied Science (AAS) degree in Welding Technology and provides training for skills and related technical knowledge necessary for advancement in the metals industry. Instruction includes classroom study as well as extensive practice in the welding lab. Peninsula College welding students are trained to the American Welding Society (AWS) and Washington Association of Building Officials (WABO) structural codes.

Program Length: 7 Quarters

Program Code: WETWTAPT

Career Opportunities and Earnings

Throughout Washington state there is an extremely high demand for welding technicians, with annual job openings for welders and fabricators and fitters. The advisory committee for this program emphasizes that someone with good welding skills is well prepared to compete for a living-wage welding job. The demand for welding technicians should remain strong over the next decade.

- Engineering technicians
- Fabricators
- Fitters
- Inspectors
- Plant maintenance personnel
- Sales and service representatives
- Supervisors
- Welders

For current employment and wage estimates, please visit and search for the relevant occupational term: [bls.gov/oes](https://www.bls.gov/oes).

Program Outcomes

When this program is completed, the student will be able to:

- Weld all types of joints
- Perform oxyacetylene cutting
- Perform shielded metal arc, gas metal arc, and gas tungsten arc welding
- Apply workplace safety guidelines
- Use and apply welding terminology



- Read basic blueprints
- Apply basic computational skills to practical applications
- Communicate in writing for a variety of purposes and audiences
- Work cooperatively and collaboratively with others
- Demonstrate competencies to succeed in the selected career pathway workplace

Special Features

- In-house certification prepares students to take AWS certification examinations
- In addition to the AAS and one-year certificate, this program offers short-term certificates in welding skills
- The instructors of the Welding Technology program are certified welding educators
- Peninsula College is an approved AWS test facility. Persons interested in taking AWS examination(s) should contact the program coordinator for information.
- Additional separate welding courses for persons not seeking the Welding Technology degree are available through this program, as is a preparatory course for the welding certification examination

Program Prerequisites

College-level skills in English and math (eligibility for courses numbered 100 or higher) are recommended before registering for the English and applied math courses required in this program. Students may need to complete prerequisite coursework. The placement test will help determine placement level if not known. Previous coursework may also indicate placement level.

Approximate Additional Costs

- Books, supplies and miscellaneous fees (per quarter): \$250
- Tools/Equipment: \$1,000
- AWS Certification Exam (optional) (per quarter): \$225 (*Students may take up to three certification exams per quarter.*)

Sample Schedule

This sample schedule is provided as a guide for a full-time student starting in fall quarter whose goal is to earn the AAS. The typical student schedule is based on entering the program during the fall quarter, however some programs allow students to enter in the winter or spring as well. Since not all do, please confirm with an advisor whether this program must be started during a specific quarter or not.

First Quarter (Fall)

Catalog #	Course Title	Credits
FA 100 or FA 105		1
HUMDV 120	Human Relations	3
WELD 110	Beginning Welding and Metal Fabrication I	15

[FA 100](#) or [FA 105](#) can be taken any quarter.

Second Quarter (Winter)

Catalog #	Course Title	Credits
ENGL& 101	English Composition I	5
WELD 120	Beginning Welding and Metal Fabrication II	15



Third Quarter (Spring)

Catalog #	Course Title	Credits
AMATH 121, AOS 106 or MATH& 107 or above		5
WELD 130	Beginning Welding and Metal Fabrication III	15

Fourth Quarter (Summer)

Catalog #	Course Title	Credits
WELD 145	Aluminum Welding	8

Fifth Quarter (Fall)

Catalog #	Course Title	Credits
WELD 210	Advanced Welding and Metal Fabrication I	15

Sixth Quarter (Winter)

Catalog #	Course Title	Credits
WELD 220	Advanced Welding and Metal Fabrication II	15

Seventh Quarter (Spring)

Catalog #	Course Title	Credits
WELD 230	Advanced Welding and Metal Fabrication III	15

Your personal educational plan will vary based on many factors including:

- The quarter you begin
- How many classes/credits you plan to take in each quarter
- Your math and English placement; Learn more about placement options by visiting the [Assessment and Placement website](#).
- If you start in our [Transitional Studies](#) program

Total Credits	112
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