

# WELDING TECHNOLOGY

Welding Technology is the application of the art and science of joining metals. Welders and fabricators have important roles in the construction of buildings, nuclear and fossil fuel power plants, heavy equipment, agricultural machinery, petro-chemical plants, bridges, floating and underwater vessels, automobiles, aircraft, appliances, and projects for national security. Specifically, anything involving metals, from miniature electronic devices to sophisticated space projects, will require the skills of the expert welders. These highly skilled members of the technological team apply practical working knowledge of welding processes, welding metallurgy, and welding code standards in solving problems of welding design and production. The OCC Welding Technology Department is licensed to qualify (certify) welders to code standards.

## Weld Testing Certificates

The Weld Testing Certificates of Specialization will be awarded upon successful completion of a proficiency test for each identified level (e.g., Level I, II, etc.) within a category of welding (i.e., SMAW, FCAW, GTAW, GMAW or Pipe). The indicated Weld Testing class must be repeated for each type of certificate received. Higher levels of certification will potentially lead to better paying jobs within the industry.

- Basic Welding (SMAW), Skill Certificate
- Intermediate Welding (SMAW), Skill Certificate
- Advanced Welding (SMAW), Certificate of Specialization
- Advanced I Welding (FCAW), Certificate of Specialization
- Advanced II Welding (FCAW), Certificate of Specialization
- Gas Metal Arc Welding (GMAW), Certificate of Specialization
- Gas Tungsten Arc Welding (GTAW), Certificate of Specialization
- Orbital Welding, Certificate of Specialization
- Pipe, Certificate of Specialization

### Department Contact Information

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Welding Department Website (<https://orangecoastcollege.edu/academics/technology/welding-technology/>)

- Advanced I Welding (FCAW), Certificate of Specialization (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/welding-technology/advanced-welding-fcaw-certificate-specialization/>)
- Advanced II Welding (FCAW), Certificate of Specialization (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/welding-technology/advanced-ii-welding-fcaw-certificate-specialization/>)
- Advanced Welding (SMAW), Certificate of Specialization (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/welding-technology/advanced-welding-smaw-certificate-specialization/>)
- Basic Welding (SMAW), Skill Certificate (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/welding-technology/basic-welding-smaw-skill-certificate/>)
- Gas Metal Arc Welding (GMAW), Certificate of Specialization (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/>)

[welding-technology/gas-metal-arc-welding-gmaw-certificate-specialization/](https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/welding-technology/gas-metal-arc-welding-gmaw-certificate-specialization/))

- Gas Tungsten Arc Welding (GTAW), Certificate of Specialization (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/welding-technology/gas-tungsten-arc-welding-gtaw-certificate-specialization/>)
- Intermediate Welding (SMAW), Skill Certificate (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/welding-technology/intermediate-welding-smaw-skill-certificate/>)
- Orbital Welding, Certificate of Specialization (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/welding-technology/orbital-welding-certificate-specialization/>)
- Pipe, Certificate of Specialization (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/welding-technology/pipe-certificate-specialization/>)
- Welding Technology, Associate in Science Degree (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/welding-technology/welding-technology-associate-science-degree/>)
- Welding Technology, Certificate of Achievement (<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/welding-technology/welding-technology-certificate-achievement/>)