



[CTEWLDCERT; CIP Code 48.0508]

Academic Certificate

The Welding and Fabrication Certificate will equip students with the essential skills and knowledge to succeed in the welding and metalworking industries. This hands-on program covers a wide range of welding techniques, including MIG, TIG, and stick welding, as well as metal fabrication, blueprint reading, and the use of welding equipment and tools. Students will gain practical experience in joining, cutting, and shaping metals for a variety of applications, from structural steel and pipe welding to custom fabrication. The Certificate also includes training in welding safety, industry standards, and quality control, ensuring students understand proper procedures for creating strong, durable, and precise welds.

Program Learning Outcomes

Students who have completed the program should be able to:

- Understand safety, quality control and industry standards for proper welding and fabrication practices.
- Apply welding techniques and welding equipment to specific applications and welding needs in fabrication.
- Identify the correct types of welds to use in specific industrial applications in fabrication.

Program Contact

Michael Lemon
Program Instructor
mlemon@rcsj.edu

✦ Are you ready to get started at RCSJ? Visit [RCSJ.edu/Enroll](https://www.rcsj.edu/Enroll) and complete the interest form. ✦

Welding and Fabrication, CERT

FIRST YEAR – Fall Semester

☐ ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
☐ ETEC 118 Tools and Measurements	1
☐ CISM 101 Introduction to Computers	4
☐ COMG 100 Introduction to Construction Technology	4
☐ ETEC 105 Blueprint Reading/Sketching	2
	14-15

Spring Semester

☐ WELD 101 Welding Foundations	3
☐ MATH 100 Foundations of Mathematics I	3
☐ WELD 105 Welding Essentials	3
	9

SECOND YEAR – Fall Semester

☐ BUSN 105 Personal and Professional Branding	1
☐ WELD 109 Advanced Welding Foundations I	3
☐ WELD 110 Advanced Welding Foundations II	3
	7

TOTAL MINIMUM CREDITS: 30

Program Notes

WELD 101 is a prerequisite of **WELD 105** each course is offered in the 7A & 7B week sessions. To earn the NCCER Welding Level 1 certificate and wallet card, students must successfully complete **WELD 101** and then **WELD 105** course.

WELD 109 is a prerequisite of **WELD 110** each course is offered in the 7A & 7B week sessions. To earn the NCCER Welding Level 2 certificate and wallet card, students must successfully complete **WELD 109** and then **WELD 110** course.

This nationally industry transferable certification is designed to equip students with the knowledge needed for safe and effective work in the welding industry.