

# WELDING TECHNOLOGY, SHORT-TERM CERTIFICATE



This program provides additional workplace skills to students who have already been trained in the fundamentals of welding. Students will gain familiarity with additional workplace safety, programming of welding robots, metallurgy, fabrication, and some nondestructive testing techniques.

**THIS PROGRAM IS CURRENTLY ON HOLD AND NOT ACCEPTING NEW STUDENTS.**

**Financial Assistance funds cannot be applied towards this program. Request for eligibility to utilize Financial Assistance funds for this program is currently pending.**

**Program contact:** [Learn more](#)

**This certificate will be automatically awarded when the certificate requirements are completed. If you do not want to receive the certificate, please notify the Office of the Registrar at [RegistrarOffice@tri-c.edu](mailto:RegistrarOffice@tri-c.edu).**

Learn more about how certificate credits apply to the related degree.

## Program Admission Requirements

- High School Diploma/GED
- Completion of Introductory Welding certificate or equivalent industry certifications.
- “C” or better in ISET-1101 Welding Blue Print Reading, ISET-2100 Gas Metal Arc Welding (MIG), ISET-2110 Gas Tungsten Arc Welding (TIG), ISET-2120 Shielded Metal Arc Welding (STICK) or equivalent experience.

## Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

1. Use effective interpersonal, communication, and professional skills to work with welding, production, engineering, and quality control teams.
2. Comply with industry safety guidelines.
3. Train operators, troubleshoot equipment, and analyze root causes and identify corrective actions of weld issues.
4. Work with production and engineering teams to develop equipment and processes for production needs, and customer expectations.
5. Use practical knowledge/experience of fabricating, blue print reading, and welding skills to complete most welding projects.

## Suggested Semester Sequence

First Semester		Credit Hours
HLTH-1230	Standard First Aid and Personal Safety	1
ISET-2131	Oxyfuel Processes/Plasma Processes	4
MET-1300	Engineering Materials and Metallurgy	3
COMM-1000	Fundamentals of Interpersonal Communication	3
Credit Hours		11
Second Semester		
ISET-2140	Non-Destructive Testing	3
ISET-2151	Robotic Welding	4
ISET-2160	Structural Fabrication	4
Credit Hours		11
Total Credit Hours		22