

# WELDING TECHNICIAN- CAREER PATHWAY CERTIFICATE OF COMPLETION (CPCC)

## Description

The Welding Technician Career Pathway Certificate of Completion is designed to prepare students for employment in the welding industry.

Certificate credits also apply to the Welding Technician AAS degree.

## Program Learning Outcomes

Upon successful completion of the certificate, students will be able to:

1. Model industry safety standards in a welding/fabrication environment.
2. Summarize test standards and information in order to pass the American Welding Society Entry Welder practical knowledge qualification written test.
3. Perform the specific skills needed to pass American Welding Society Entry Welder performance qualification tests.
4. Apply inspection, testing, and acceptance criteria at the American Welding Society Entry Welder level.

## Entrance Requirements

### Academic Entrance Requirements

Recommended:

- High school diploma or GED
- Completion of MTH 060 Beginning Algebra or minimum placement Math Level 10
- College-level computer skills

## Additional Costs (Beyond Standard Tuition/Fees and Textbooks)

### Material Costs

Required:

- Personal protective equipment and tools: approximately \$250

### Enrollment Fees

- Fees on specific MFG courses: approximately \$600

## Course Requirements

Course	Title	Credits
<b>Core Courses</b>		
MFG 100	Manufacturing Technology Orientation	1
MFG 103	Welding Technology I	4
MFG 105	Welding Technology II	4
MFG 107	Welding Technology III	4
MFG 264	Automated Cutting	3
MFG 267	Oxygen-Fuel and Plasma Cutting	3
MFG 271	SMAW	4
MFG 272	GMAW	4
MFG 281	GTAW	4

MFG 282	FCAW	4
<b>Total Credits</b>		<b>35</b>

## Advising Notes

Manufacturing Technology courses are structured to enable students to meet benchmarks through the completion of labs and hands-on projects. Please connect with a manufacturing/welding advisor before registering for classes.

Upon starting their program, students review their desired certificate or degree outcome with their advisor. Students should continue to meet with their advisors on a continuous basis to ensure they remain on track for degree completion.

This certificate is designed for students to directly enter the manufacturing workforce. Transferability of course credits to other public, or private, institutions' degree programs is dependent on those institutions' policies.

## Performance Standards

- Academic Requirements:
  - Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
  - All courses in the program must be completed with a grade of C or higher.

## Sample Plan

<b>First Year</b>		
<b>First Term</b>		<b>Credits</b>
MFG 100	Manufacturing Technology Orientation	1
MFG 103	Welding Technology I	4
MFG 267	Oxygen-Fuel and Plasma Cutting	3
<b>Credits</b>		<b>8</b>
<b>Second Term</b>		
MFG 105	Welding Technology II	4
MFG 107	Welding Technology III	4
MFG 264	Automated Cutting	3
<b>Credits</b>		<b>11</b>
<b>Third Term</b>		
MFG 271	SMAW	4
MFG 272	GMAW	4
MFG 281	GTAW	4
MFG 282	FCAW	4
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>35</b>