# WELDING APPRENTICESHIP

#### Overview

**Welding Apprenticeship** 

Program Code: 50-442-1

For more information: edu/welding-appr (https://www.wctc.edu/ academics/programs-courses/programs/welding/)

Welders work in a wide variety of industries - from automobile manufacturing, shipbuilding, aerospace and many others. Their duties include joining metal parts by fusing them together and creating a permanent bond using different welding techniques. Receive highquality, hands-on classroom instruction that complements on-the-job apprenticeship training critical for success in the industrial trades.

The minimum required course grades and program grade point average (GPA) for students under this catalog are:

Core Courses = C Program GPA = 2.0

#### Additional details regarding apprenticeship:

- Obtain further information about apprenticeship programs by visiting the State's Department of Workforce Development website: https:// dwd.wisconsin.gov/apprenticeship (https://dwd.wisconsin.gov/ apprenticeship/)
- · Secure employment as a State of Wisconsin Indentured Apprentice.
- · WCTC will send the schedule to the student; application to WCTC is not necessary by the student.

# **Learning Outcomes Program Outcomes**

- 1. Adhere to welding and fabrication health & safety rules, regulations, and training covered by employers.
- 2. Interpret technical drawings.
- 3. Weld metals following prescribed techniques and industry standards.
- 4. Produce precision fabricated parts and assemblies according to specifications.
- 5. Perform advanced cutting processes.
- 6. Apply principles of metallurgy to welding and fabrication operations.
- 7. Perform visual inspection of welds, parts, and assemblies.
- 8. Perform basic forming processes.
- 9. Perform job set-up operations in order to control distortion.
- 10. Apply manufacturing principles to welding and fabrication work processes.

### **Critical Life Skills**

To help our students prepare for success in a workplace and society that is increasingly global, multicultural and collaborative, we provide curricular and co-curricular opportunities to develop critical life skills. WCTC is committed to teaching all students the following skills:

- · Communication: Demonstrate appropriate communication.
- · Critical Thinking/Problem Solving: Demonstrate critical thinking skills to analyze situations and solve problems.

- · Relationships: Demonstrate effective interpersonal skills.
- · Self-management: Demonstrate responsible and respectful behavior.

## **Required Courses**

Code	Title	Credits
<b>Core Courses</b>		
442-504		0.5
442-506	Shop Safety Welding Apprentice	0.5
442-508	Welding Apprentice Blpt Rdg	1.5
442-509	Apprentice Welding Processes 1	1
442-510	Fabrication for Apprentices 1	1
442-514	Fabrication for Apprentices 2	1.5
442-516	Welding Apprentice Metallurgy	1
442-517	Apprentice Welding Processes 2	1
442-527	Robotic Welding for Apprentice	1
442-528	Troubleshooting for Fabricator	1
442-529	<b>Automated Cutting Apprentices</b>	2
Total Credits	12	

#### **Full-time Plan**

First Year		
Fall Term 1		Credits
442-506	Shop Safety Welding Apprentice	0.5
442-508	Welding Apprentice Blpt Rdg	1.5
442-509	Apprentice Welding Processes 1	1
442-510	Fabrication for Apprentices 1	1
	Credits	4
Spring Term 1		
442-504		0.5
442-514	Fabrication for Apprentices 2	1.5
442-516	Welding Apprentice Metallurgy	1
442-517	Apprentice Welding Processes 2	1
	Credits	4
Second Year		
Fall Term 1		
442-527	Robotic Welding for Apprentice	1
442-528	Troubleshooting for Fabricator	1
442-529	<b>Automated Cutting Apprentices</b>	2
	Credits	4
	Total Credits	12