



Career EXCELeRate | Wisconsin

Personalized Job Training and Support Services to Transform Lives

A collaborative program from Goodwill NCW, FVTC and Rawhide



Career Educational Pathway Welding Fundamentals Certificate

Description

Welding/Metal Fabrication Introduction and Safety

Provides instruction in welding and metal fabrication safety. Students will identify environmental work and personnel hazards common with the industry and proper personal protection methods. Students will also perform common tasks essential to utilization of the welding and metal fabrication lab.

Weld Symbols

Teaches students to interpret detailed weld symbols using the American Welding Society standard.

Weld Print Reading

Provides practice in reading shop drawings. Topics include: orthographic projection, auxiliary views, revolved sections, surface and centerline relationships, isometric drawings, scale drawing and tolerances.

GMAW 1 Techniques

Demonstrates welding on steel sheet metals and plates. Emphasis is placed on axial spray, pulse spray and short circuit mode of transfer. Upon completion of this course, the student will be able to weld in all positions, read basic weld symbols, and have an understanding of written welding procedures.

GMAW 2 Techniques

Teaches students to weld on stainless steel and aluminum sheet metal and plate. The student will be able to differentiate, select proper electrodes, shielding gases, and properly adjust parameters. Emphasis is placed on axial spray, pulse spray and short circuit mode of transfer depending on base metal. Upon completion of this course, the student will be able to weld in all positions, read some basic weld symbols, and have a basic understanding of written welding procedures.

Entrance criteria: None



Career EXCErate | Wisconsin

Personalized Job Training and Support Services to Transform Lives

A collaborative program from Goodwill NCW, FVTC and Rawhide

Who Should be in this Program

Get the skills you need for a high-demand, entry-level career in welding. Your training will cover environmental work and personnel hazards common with the industry and proper personal protection methods. You'll learn how to read shop drawings, interpret detailed weld symbols, and will receive hands-on training in welding on a variety of materials and positions. FVTC and Goodwill can assist with employer connections at the onset of the technical training.

Program

Welding Fundamentals Certificate

7 credits | 225 hours | March 2025

- Welding/Metal Fabrication Introduction and Safety (1 credit, 10-621-105)
- Weld Symbols (1 credit, 10-621-114)
- Weld Print Reading (1 credit, 10-621-108)
- GMAW 1 Techniques (2 credits, 10-442-123)
- GMAW 2 Techniques (2 credits, 10-442-124)

Class Schedule

Welding Fundamentals (Five course cohort)

Location: Advanced Manufacturing Technology Center, Oshkosh

Term: Spring 2025

Class Dates: 3/17/25 - 5/15/25

Schedule: Monday - Thursday, 8:00 am - 2:30 pm



SCAN ME

To get started, visit careerEXCEratewi.org,
or call or text: 920-204-7002



This project is being supported, in whole or in part, by federal award number SLFRP0135 awarded to Goodwill via the Wisconsin Workforce Innovation Grant Program by the U.S. Department of the Treasury.