



# Career EXCErate | 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 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.

#### Weld Symbols

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

#### 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



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## 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.

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## Program

### Welding Fundamentals Certificate

7 credits | 441 hours | Jan. 2023

- Welding/Metal Fabrication Introduction and Safety (1 credit, 10-621-105)
- Weld Print Reading (1 credit, 10-621-108)
- Weld Symbols (1 credit, 10-621-114)
- 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 (AMTC), Oshkosh

Term: Spring 2023

Class Dates: 1/17/2023 - 5/16/2023

Schedule: Wednesdays, Thursdays and Fridays, 7:00 am - 11:00 am

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