
2024-25 ACADEMIC PROGRAMS

WELDING AND FABRICATION PRINCIPLES (CTWLDS)

This certificate introduces students to safe welding and cutting practices and principles including:

- proper technique and position,
- weld quality requirements,
- destructive and non-destructive testing and examination methods,
- print reading and interpretation of welding symbols, and
- basic metal fabrication.

Students will use the foundation and working knowledge to weld in all processes, perform repair techniques using thermal cutting and gouging, apply the requirements to executive quality welds and apply CNC programming language that can be used to produce parts that can be assembled and welded. This certificate serves as a fundamental pathway into the Welding and Fabrication Advanced Applications certificate and Welding Technology degree. Students who successfully complete this certificate will have learned the skills sought by the workforce as an entry-level welder and fabricator.

Come see our AWS-certified staff and learn in our newly renovated lab equipped with state-of-the-art equipment for welding and fabrication; weld inspection and testing; and automated welding and cutting!

This is a **high demand** and **high skill** program as defined by the [Michigan Community College Network](#).

[See this program in the catalog](#) [Apply](#)

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