

# MFG 288 : INDUSTRIAL FABRICATION

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## Transcript title

Industrial Fabrication

## Credits

3

## Grade mode

Standard letter grades

## Contact hours total

60

## Other hours

60

## Prerequisites with concurrency

MFG 273; MFG 274; MFG 283; and MFG 284.

## Description

Includes metal fabrication focusing on blueprint interpretation, proper fit techniques, length and width allowances, welding processes, utilization of jigs and fixtures, and performance evaluation.

## Learning outcomes

1. Demonstrate safe practices in the MATC industrial fabrication lab.
2. Read and Interpret blueprints, drawings, and sketches, including welding symbols, to fabricate a product in accordance with the proper code, standard, or engineering document.
3. Design and Implement any jigs or fixtures needed to fabricate the product documented in the blueprint, drawing, or sketch.
4. Manufacture parts to proper size from specified stock and fit basic assemblies within the proper code, standard or engineering document.
5. Create documentation as required to show compliance with welding procedures specified or implied in the fabrication documents.
6. Apply and Interpret a performance qualification test of the product adhering to the written documentation set forth within the applicable code, standard or engineering document.

## Content outline

Present fabrication documents  
Discuss evaluation rubrics for each outcome  
Develop parts and assembly lists  
Request materials and prepare parts  
Present initial documentation for assessment  
Fabricate product  
Inspect and evaluate  
Performance qualification testing and assessment.  
Feedback/close the loop

## Required materials

This class requires the use of safety equipment, reference books, measurement equipment, and tools as well as the purchase of materials for fabrication.

## Grading methods

Assessment for this course may include, either online or in person, written assignments, homework, timed tests, take home tests, oral presentations, and demonstrations of manual skills acquisition as needed to confirm achievement of the course outcomes.