

# MFG 274 : GMAW II

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## Transcript title

GMAW II

## Credits

3

## Grading mode

Standard letter grades

## Total contact hours

60

## Other hours

60

## Prerequisites

MFG 272.

## Course Description

Includes GMAW welding complete joint penetration welds on 2" and 6" pipe in 2G and 5G positions.

## Course learning outcomes

1. Demonstrate safe practices in the MATC Welding Lab using GMAW processes at an advanced level for pipe weldments.
2. Weld two-inch pipe in 2G and 5G (advanced) positions with GMAW processes to AWS D1-1, API 1104, and multiple ASME codes and standards.
3. Weld six-inch pipe in 2G and 5G (advanced) positions with GMAW processes to AWS D1-1, API 1104, and multiple ASME codes and standards.
4. Apply visual and destructive examination principles and practices in accordance with AWS D1-1.

## Required materials

This class requires the purchase of safety equipment, reference books, measurement equipment, and tools.