

MFG 276 : GMAW III

Transcript title

GMAW III

Credits

3

Grading mode

Standard letter grades

Total contact hours

60

Other hours

60

Prerequisites

MFG 274.

Course Description

Includes GMAW welding complete joint penetration welds of 2" and 6" pipe in 6G, qualification test practice, and construction of saddle tees.

Course learning outcomes

1. Demonstrate safe practices in the MATC Welding Lab using GMAW processes at an expert level for pipe weldments.
2. Weld two-inch pipe in 6G (expert) position with GMAW processes to AWS D1-1, API 1104, and multiple ASME codes and standards.
3. Weld 6" pipe in 6G (expert) position 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, B2-1, API 1104, and applicable ASME code and standards visual acceptance criteria.
5. Construct and weld two-inch and six-inch saddle tee with GMAW processes to API 1104 standard.

Required materials

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