

MFG 271 : SMAW I

Transcript title

SMAW I

Credits

3

Grading mode

Standard letter grades

Total contact hours

60

Other hours

60

Prerequisites

MFG 107.

Course Description

Includes SMAW butt welding of mild steel plate in all positions with and without backing as well as various configurations and progressions.

Course learning outcomes

1. Demonstrate safe practices in the MATC Welding Lab using SMAW processes at an intermediate level.
2. Demonstrate appropriate set up, maintenance, and use of SMAW equipment for intermediate weldments.
3. Weld common (intermediate) butt joint assemblies using SMAW 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.