

MFG 282 : FCAW I

Transcript title

FCAW I

Credits

3

Grading mode

Standard letter grades

Total contact hours

60

Other hours

60

Prerequisites

MFG 107.

Course Description

Includes FCAW 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/GMAW/FCAW] processes at an intermediate level.
2. Demonstrate appropriate set up, maintenance, and use of [SMAW/GMAW/FCAW] equipment for intermediate weldments.
3. Weld common (intermediate) butt joint assemblies using [SMAW/GMAW/FCAW] processes to AWS D1.1, API 1104, and multiple ASME Codes/Standards. Weldments will be done in multiple edge configurations, progression and weld types.
4. Apply visual and destructive examination principles and practices in accordance with AWS D1.1.

Content outline

FCAW Reading/Terminology FCAW butt weld with backing 1F, 2F, 3F, 4F various configurations different progressions as needed multiple weld types x2 FCAW butt weld without backing 1F, 2F, 3F, 4F various configurations different progressions as needed multiple weld types x2 Weldments joints design inspection Industry Drawings interpretation of symbols fabrication requirements general industry requirements material handling and callouts

Required materials

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