

MFG 284 : FCAW II

Transcript title

FCAW II

Credits

3

Grading mode

Standard letter grades

Total contact hours

60

Other hours

60

Prerequisites

MFG 282.

Course Description

Includes FCAW 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 FCAW processes at an advanced level for pipe weldments.
2. Weld 2" pipe in 2G and 5G (advanced) positions with 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.
3. Weld 6" pipe in 2G and 5G (advanced) positions with 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 2" pipe Sched 40 2G destructive test x2 FCAW 2" pipe Sched 40 5G progression destructive test x2 FCAW 6" pipe Sched 40 2G destructive test x2 FCAW 6" pipe Sched 40 5G progression destructive test 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.