
SECTION HEADING

WELD 1220: Shielded Metal Arc Welding I

Description

Shielded Metal Arc Welding provides the student with a thorough technical understanding of arc welding, welding safety, arc welding power sources, electrode classifications and selection. It also provides training to develop the skills necessary to make quality shielded metal arc welds on mild steel.

Credits

3

Prerequisite

None

Corequisite

None

Topics to be Covered

1. Safety in the welding shop
2. Welding joints and positions
3. Material preparation
4. Electrode selection
5. Shielded Metal Arc Welding (SMAW) principles
6. Current and polarity
7. Shielded Metal Arc Welding equipment, set-up, and supplies
8. Perform quality welds using Shielded Metal Arc Welding processes

Learning Outcomes

1. Recognize a safe work environment and the need for personal safety.
2. Demonstrate weld shop safety.
3. Demonstrate safe and proper use of Shielded Metal Arc Welding equipment and components.
4. Demonstrate technical understanding of Shielded Metal Arc Welding processes.
5. Perform quality welds in the flat position using Shielded Metal Arc Welding processes.
6. Demonstrate proper adjustment, set-up and operation of Shielded Metal Arc Welding equipment.

Credit Details

Lecture: 1

Lab: 2

OJT: 0

MnTC Goal Area(s): None