
SECTION HEADING

WELD 1280: Intermediate Shielded Metal Arc Welding

Description

Intermediate Shielded Metal Arc Welding will have students perform horizontal, vertical, and overhead welding in accordance with American Welding Society procedures. Common joint types in various thicknesses are welding using various electrodes. Some sheet metal will be welded.

Credits

2

Prerequisite

None

Corequisite

None

Topics to be Covered

1. Safety and health of welders, use of personal protective equipment, and safety inspection of Shielded Metal Arc Welding equipment and accessories
2. Set-up of Shielded Metal Arc Welding equipment on carbon steel
3. Operate Shielded Metal Arc Welding equipment on carbon steel
4. Demonstrate groove welds in all positions
5. Inspection of tracks, root passes, intermediate layers, and completed welds

Learning Outcomes

1. Recognize and demonstrate weld shop safety and the use of personal protective equipment.
2. Demonstrate safe and proper use of Shielded Metal Arc Welding equipment and components.
3. Identify proper electrode selection.
4. Evaluate and identify a weld bead's shape with different heat inputs.
5. Describe stringer beads.
6. Perform a square butt joint weld in all positions.
7. Perform a groove weld in plate in all positions with or without backing.

Credit Details

Lecture: 0

Lab: 2

OJT: 0

MnTC Goal Area(s): None