SECTION HEADING

WELD 1240: Gas Tungsten Arc Welding I

Description

Gas Tungsten Arc Welding I provides the student with a thorough technical understanding of Gas Tungsten Arc welding, welding safety, equipment and set-up, rod and shielding gas classifications and selection. It also provides training to develop the skills necessary to make quality gas tungsten arc welds on non-ferrous metals.

Credits

2

Prerequisite

None

Corequisite

None

Topics to be Covered

1. Safety in the welding shop

2. Welding joints and positions

3. Material preparation

4. Rod selection and shielding gas

5. Gas Tungsten Arc Welding (GTAW) principles

6. Gas Tungsten Arc Welding equipment, set-up, and supplies

7. Perform quality welds using Gas Tungsten Arc Welding processes on non-ferrous metals

Learning Outcomes

1. Recognize and demonstrate weld shop safety and the use of personal protective equipment.

2. Demonstrate safe and proper use of Gas Tungsten Arc Welding equipment and components.

3. Demonstrate technical understanding of Gas Tungsten Arc Welding processes.

4. Perform quality welds using Gas Tungsten Arc Welding processes on non-ferrous metals.

5. Demonstrate proper adjustment, set-up and operation of Gas Tungsten Arc Welding equipment.

Credit Details

Lecture: 0

Lab: 2

OJT: 0

MnTC Goal Area(s): None