SECTION HEADING

WELD 1190: Welding Principles

Description

Welding Principles provides the student with details of welding and cutting processes, terminology, joint design, related areas of shop math, measurement, and reading technical drawings.

Credits

3

Prerequisite

None

Corequisite

None

Topics to be Covered

- 1. Welding Safety
- 2. Physics of Welding
- 3. Welding joints and positions
- 4. Weld terminology
- 5. Oxy-fuel gas cutting equipment and supplies
- 6. Plasma Arc cutting equipment and supplies
- 7. Shielded Metal Arc Welding equipment and supplies
- 8. Gas Metal Arc Welding equipment and supplies
- 9. Gas Tungsten Arc Welding equipment and supplies
- 10. Shop Math
- 11. Technical drawings and sketches

Learning Outcomes

- 1. Recognize a safe work environment and the need for personal safety.
- 2. Describe welding terms and definitions.
- 3. Describe welding processes, equipment, and supplies required.
- 4. Apply shop math to welding.
- 5. Read and interpret welding drawings and sketches.
- 6. Demonstrate use of various measurement tools used in welding industry.

Credit Details

Lecture: 1

Lab: 2

OJT: 0

MnTC Goal Area(s): None