

The Edmore Experience

Welding 101

Welding & Projects

Week 12 - April 3 -

Unit Objective:

- Students will utilize shielded metal arc welder to weld a stringer bead in the **Flat, Horizontal, & Vertical** position. NDCTE 4.5 & 4.6
- Students will utilize the metal inert gas (mig) welder to weld a stringer bead in the **Flat, Horizontal, & Vertical** position. NDCTE 5.5 & 5.6
- Students will self-critique each weld utilizing provided illustrations of proper/improper welds. Instructor will provide input.
- Students will draw project on metal and utilize CNC plasma cutting machine to cut out project.
- Students will assemble cut pieces of metal utilizing arc & MIG welding processes.

ND CTE Standards:

- NDCTE Welding 1.2 (Occupational Orientation)- Perform general housekeeping duties to maintain workspace, equipment, and tool cleanliness.
- NDCTE Welding 1.3 (Occupational Orientation) - Follow detailed verbal instructions given by immediate supervisor to set up and carry out specific assignments.
- NDCTE Welding 2.3 (Safety & Health) - Is aware of the dangers associated with welding and brazing fumes, and uses the best possible means of ventilation available for the capture of welding and brazing fumes as close to the source as possible.
- NDCTE Welding 2.5 (Safety & Health) - Follows established procedures and policies for working in confined areas.
- NDCTE Welding 2.7 (Safety & Health) - Demonstrates proper inspection and operation of equipment used for each welding and thermal cutting process.

Monday - Wednesday - Friday

Time

- 12:24 Read Bell-Ringer (white board tool I.D. & use)
- 12:26 Discuss Bell-Ringer
- 12:28 Students will utilize shielded arc welder, MIG welder, Acetylene cutting torch, Plasma cutter, and angle grinder to prepare metal and weld.
- 1:14 Closure (Discuss tomorrow's goal)
- 1:16 Bell

Tuesday - Thursday

Time

- 12:24 Read Bell-Ringer (white board tool I.D. & use)
- 12:26 (Get suited up - Set up work station)
- 12:28 Discuss Bell-Ringer
- 12:30 Weld
- 12:34 Self-critique - instructor input
- 12:37 (Repeat Process)
- 1:00 Critique individual welds (group process)
- 1:10 Clean up work station
- 1:14 Closure (Discuss tomorrow's goal)
- 1:16 Bell

