COURSE COMPETENCIES

WLD 212 – Gas Metal Arc Welding II 3 Credits

1. Perform safety inspection of equipment, work area and accessories.
2. Make minor repairs to equipment and accessories.
3. Set up a Flux Core Arc Welding station for plain carbon steel.
4. Flat Position: .045” E71T-1 inside outside corner passing visual inspection: ¾” inside and 1” outside
5. Horizontal Position: .045” E71T-1 inside outside corner passing visual inspection
6. Vertical Position: .045” E71T-1 inside outside corner passing visual inspection
7. Overhead Position: .045” E71T-1 inside outside corner passing visual inspection
8. Repeat SA4, SA5, SA6 using CO2 shielding gas
9. E71T-1, Carbon steel, 1” single bevel - FLAT position passing visual inspection
10. E71T-1, Carbon steel, 1” single bevel - HORIZONTAL position passing visual inspection
11. E71T-1, Carbon steel, 1” single bevel - VERTICAL position passing visual inspection
12. E71T-1, Carbon steel, 1” single bevel - OVERHEAD position passing visual inspection
13. Carbon Steel single V, 22.5degree bevel, FLAT position on 1”X4”x8” HORIZONTAL position
14. Carbon Steel single V, 22.5degree bevel, FLAT position on 1”X4”x8” VERTICAL position
15. Carbon Steel single V, 22.5degree bevel, FLAT position on 1”X4”x8” OVERHEAD position.

Shelf Shielded flux Core
1. ¾” Fillet weld, FLAT position
2. ¾” Fillet weld, HORIZONTAL position
3. ¾” Fillet weld, VERTICAL position
4. ¾” Fillet weld, OVERHEAD position

Stainless Steel GMAW
1. 1/8” fillet weld, FLAT position, Visual and size inspection
2. 1/8” fillet weld, HORIZONTAL position, Visual and size inspection
3. 1/8” fillet weld, VERTICAL position, Visual and size inspection
4. 1/8” fillet weld, OVERHEAD position, Visual and size inspection

Aluminum GMAW
1. Running beads FLAT, HORIZONTAL, VERTICAL, and OVERHEAD
2. Fillet weld on .080” or other approved material FLAT position
3. Fillet weld on .080” or other approved material HORIZONTAL position
4. Fillet weld on .080” or other approved material VERTICAL position
5. Fillet weld on .080” or other approved material OVERHEAD position
6. ¼” Fillet weld, FLAT position
7. ¼” Fillet weld, HORIZONTAL position
8. ¼” Fillet weld, VERTICAL position
9. ¼” Fillet weld, OVERHEAD position

These course competencies have been approved by:
Shawn McDaniels, BBCC Faculty