



Articulation Agreement Course Provisions and Competencies

WLD 212 Gas Metal Arc Welding II

3 credits

Flux cored arc welding with carbon steel and stainless steel using 0.045 flux cored wire following A.W.S. and W.A.B.O. procedure code. Various joints, thicknesses of materials in all positions. Also 1" plate W.A.B.O. unlimited field certification test.

PROVISIONS

1. Columbia Basin Job Corps instructors may award college Tech Prep credit provided they possess or attain a SMAW welding certification, WABO, AWS, or ASME, in at least one position.
2. Other teachers approved by the college may test and award credit to students or arrange for testing with the BBCC welding instructor.
3. Student must complete WLD 111, WLD 112, WLD 121 and WLD 122.
4. Columbia Basin Job Corps instruction to include minimum 4 hours flux core stainless steel and API code and ASME code pipe welding.
5. Student must receive an A or B grade (minimum 2.9 or better) and complete all competencies.
6. Students may apply credits towards course requirements in the Big Bend Community College Welding Technology Program.
7. College credits earned under this articulation agreement are at no cost to the student.
8. Columbia Basin Job Corps and/or student is responsible for any fees for WABO, ASME. & AWS welding certification testing.
9. All required Tech Prep forms must be sent to BBCC **within 30 days** of high school course completion.
10. Teachers must assign student grades and credits **within 30 days** of high school course completion.

COMPETENCIES

Carbon steel 0.045 wire corner joint

- Using 75:25 gas
 - $\frac{3}{4}$ " x 1-1/4" x 8" plate
1. Flat position
 2. Horizontal position
 3. Vertical position
 4. Overhead position

Competencies Continued

Carbon steel 0.045 wire corner joint

- Using CO₂ gas
 - $\frac{3}{4}$ " x 1-1/4" x 8" plate
5. Flat position
 6. Horizontal position
 7. Vertical position
 8. Overhead position

Carbon steel single bevel

9. Flat position
10. Horizontal position
11. Vertical position
12. Overhead position

Carbon steel single V

- 30° bevel $\frac{3}{4}$ " x 4" x 8"
13. Flat position
 14. Horizontal position
 15. Vertical position
 16. Overhead position

Stainless steel corner weld

- Using 0.045 wire
17. Horizontal position
 18. Vertical position
 19. Overhead position

Self shielded FCAW, fillet weld

20. Flat position
21. Vertical position
22. Horizontal position
23. Overhead position

Carbon steel single V

- Using 0.045 wire
 - Using 75:25 gas
 - Using 1" x 4" x 8" plate
24. Horizontal position
 25. Vertical position
 26. Overhead position