

ASSESSMENT/COMPETENCY RECORD

GMAW PRACTICES (STEEL)

BTC: WLD 223 (2 credits)

Students will demonstrate the GMAW process in the 2F and 3F positions using 1/4" steel plate.



STUDENT NAME _____

SCHOOL NAME _____

HIGH SCHOOL WELDING LAB:

- _____ Demonstrate safe and effective welding and shop working practices.
- _____ Demonstrate use of proper welding terminology related to the GMAW process.
- _____ Demonstrates proper set-up of welding power source.
- _____ Demonstrates proper and safe use of welding and fitting tools .
- _____ Demonstrate proper equipment set-up and trouble-shooting techniques.
- _____ Demonstrate that proper welding wire is being used for welding material selected.
- _____ Demonstrate proper roller size used in wire feeder.
- _____ Demonstrate ability to change wire, rollers, tips, diffusers, nozzles, and set proper tension on rollers for welding.
- _____ Demonstrate ability to set proper welding parameters (voltage and wire feed speed).
- _____ Demonstrate understanding of simple layout and fit-up practices on 1/4" mild steel plate.
- _____ Demonstrate competency in GMAW techniques with solid wire on mild steel in the Flat, Horizontal, and Vertical Fillet positions:
 - ✓ Weld deposited with complete fusion
 - ✓ Bead shape is slightly convex and uniform in appearance
 - ✓ Weld is free from slag, undercut, cracking & porosity
 - ✓ Proper overlapping with a uniform appearance

_____ **HS Instructor Verifies Student has Achieved all Competencies**

_____ **Grade**

_____ **Date**

Comments:

This document certifies this student completed the required coursework as defined by the Whatcom Tech Prep articulation agreement and has demonstrated mastery for college credit.

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