

SHIELDED METAL ARC WELDING (SMAW)

Pierce County Careers Connection

Dual Credit Articulation Agreement

Upon completion of high school course(s) equivalent to the following competencies:

Shielded Metal Arc Welding Set-Up

- Set-up for Shielded Metal Arc Welding with the following:
 - AC and/or DC power source
 - Clamps
 - Electrode holder
 - Ground lead
 - Portable screeners
 - Welding lead
 - Welders standard tool kit
 - Workpieces
- Workpiece is secured.
- Ground lead provides continuity from the power source to the workpiece.
- The welding lead provides continuity from the power source to the electrode holder.
- Both leads are untangled.
- The power source is plugged in.
- Portable screens are in place.

Shielded Metal Arc Fillet Welds I

- Make fillet welds using fast fill rod and the following:
 - Chipping hammer
 - Electrodes
 - Grinder
 - SMAW equipment
 - Fast fill rods
 - Portable screens
 - Protective clothing/equipment
 - Weld gauge
 - Wire brush
 - Work orders
 - Work pierces
- The weld is deposited with complete fusion and is free from slag, overlapping, cracking, and porosity.
- The weld is at least 25% greater in width than depth.
- The weld is without undercutting, and possesses the specified convexity/concavity.

A student earning a “C” grade or better may earn college credit at the following college:

<u>College</u>	<u>Course</u>	<u>Credits</u>
Bates Technical College	WELD 105 (CIP Code: 48.0508)	5