



PILOT ASSESSMENT BLUEPRINT
Agriculture Mechanics (1148)
Skill-Based (Performance)

Job Description	<p>Metal Fabrication</p> <p>Participant will draw a pattern on a mild steel plate, set up torches, cut out the pattern, grind a bevel, use a butt weld to complete weld, clean work area, and notify evaluator when complete.</p>
Administration Time	60 minutes
Equipment, Supplies, or Materials Required	<ul style="list-style-type: none">• All necessary protective clothing and safety equipment<ul style="list-style-type: none">○ Face shield○ Shade 5 glasses○ Welding helmet shade 10-13○ Gloves○ Long cotton sleeve○ Leather work boots○ Long pants○ Hair tie, if appropriate• One piece of mild steel plate (per participant) 1/4-inch by 5-inch square• Provide an oxyacetylene cutting rig with the proper tip for this job• Soapstone• Steel ruler• Tool for measuring beveled edge• MIG welder (gas shielded) with appropriate wire• Grinder• Slip joint pliers• Striker or torch lighter• Chipping hammer with wire brush• Appropriate cutting table• Appropriate welding table• Appropriate ventilation