

**Apprentice Name:** \_\_\_\_\_

**Start Date:** \_\_\_\_\_

<b>Gas Metal Arc Welding – 0.035” diameter electrode</b>		Proficient in Task	Completion Date
1.	Weld a 3/16” (0.2”) [5 mm] horizontal fillet weld in T joint in the horizontal position in a straight line		
2.	Weld a 5/16” (0.3”) [8 mm] horizontal fillet weld in Lap joint in the horizontal position in a straight line		
3.	Weld square groove butt joint in the flat position		
4.	Weld flare bevel groove T joint in the flat and horizontal positions		
5.	Weld a 3/16” (0.2”) [5 mm] horizontal fillet weld in T joint in the horizontal position around a small diameter pipe		
6.	Weld a 5/16” (0.3”) [8 mm] horizontal fillet weld in T joint in the horizontal position around a small diameter pipe		
<b>Gas Metal Arc Welding – 0.045” diameter electrode</b>		Proficient in Task	Completion Date
7.	Weld a 5/16” (0.3”) [8 mm] horizontal fillet weld in T joint in the horizontal position in a straight line		
8.	Weld a 3/8” (0.4”) [10 mm] horizontal fillet weld in T joint in the horizontal position in a straight line (2 pass)		
9.	Weld a 1/2” (0.5”) [13 mm] horizontal fillet weld in T joint in the horizontal position in a straight line (3 pass)		
10.	Weld a 5/16” (0.3”) [8 mm] horizontal fillet weld in T joint in the horizontal position around a small diameter pipe		
11.	Weld bevel (single, Vee, flair) groove welds in the flat position		
<b>Hoist and Rigging</b>		Proficient in Task	Completion Date
12.	Safety procedures		
13.	Use of straps, cables, chains		
14.	Use of lifting devices		
15.	Estimation of load weights and center of gravity		
16.	Moving, loading, and manipulation of loads		
<b>Jigs and Fixtures</b>		Proficient in Task	Completion Date
17.	Verify shape of metal parts according to blueprints		
18.	Assemble metal parts in jigs and fixtures		
19.	Tack parts together		
<b>Safety</b>		Proficient in Task	Completion Date
20.	Safety procedures and practices		
<b>Lean Manufacturing</b>		Proficient in Task	Completion Date
21.	Principles of 5S		
22.	Weld to takt time		
23.	Continuous Improvement Participation		
<b>Weld Inspection</b>		Proficient in Task	Completion Date
24.	Visual examination of surfaces prior to welding		
25.	Visual examination of welds for acceptance		
<b>Weld Layout and Fabrication</b>		Proficient in Task	Completion Date

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26.	Layout and fixture weldments using layout table or without fixtures		
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**Date Completed:** \_\_\_\_\_

**Apprentice:** \_\_\_\_\_

**Mentor:** \_\_\_\_\_

**Supervisor:** \_\_\_\_\_

**Pella Academy:** \_\_\_\_\_