

Welding Lab Objectives

	Objective Description	Filler Metal	Base Metal	Additional Information
1	Oxy-Acy Cutting 4 x 4 hole/beveled one side	N/A	¼" to 3/8" Mild steel	See information sheet
2	Oxy-Acy Welding 4-beads without filler Rod Puddling	N/A	14-16 ga. Mild steel	Visual
3	Oxy-Acy Welding: 4-beads with filler rod	1/8" mild steel	14-16 ga. Mild steel	Visual
4	Pad-flat position: 4" x 5" plate	E-6010 DC 1/8	Mild steel 3/16" – 3/8"	AWS Visual
5	1" Fillet Weld, Tee 5" long Flat Position (1F)	E-6010 DC 1/8	Mild steel 3/16" – 3/8"	AWS Visual
6	Pad-flat position: 4" x 5" plate	E 7018 DC 1/8"	Mild steel 3/16" – 3/8"	AWS Visual (top layer)
7	1" Fillet Weld, Tee Flat Position (1F) 5" long	E 7018 DC 1/8"	Mild steel 3/16" – 3/8"	AWS Visual
8	1" Fillet Weld, Tee MIG (1F) 5" long	030 hard wire	Mild steel 3/16" – 3/8"	AWS Visual
9	Single Pass Fillet weld Tee MIG Horizontal (2F) 5" long	030 hard wire	Mild steel	AWS Visual
10	Four bead test horizontal position 5" long	E 7018 DC 3/32"	Mild steel	AWS Visual