

Instructions for Welding Contest

1. Materials:
6" x 8" x 3/8" plate
pipe handle

all of these materials will be used
2. Cut two (2) 1 1/2" strips off of 6" x 8" piece as indicated on the drawing.
3. Make a tee joint by tacking the two (2) 1 1/2" x 8" pieces in the center on both sides of the 3" x 8" piece. This provides you with four (4) separate places for fillet welds (see print).
4. One (1) side will be welded in the 3F position (up) with an E6010 1/8" electrode with a fillet size of 1/4" to 3/8" multipass. Another side will be welded in the 3F position (up) with an E7018 3/32" electrode with a fillet size of 3/16" to 5/16" mulipass (see print).
5. After completing the SMAW process, go to the GMAW lab positioning your tee for a fillet weld in the 4F position. This is a multipass with a 3/8" leg size (see print).
6. The last fillet weld will be in the 1F position using the gas shielded wire.

Take your time, but use it wisely!

Good luck!