



Welding Fabrication

District 8 Competition

Purpose:

To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of welding fabrication.

Clothing Requirements:

Professional work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles. (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.) Welding coat, hood and gloves.

Eligibility (Team of 3):

Open to active SkillsUSA members enrolled in programs with welding as the occupational objective. This is a team event. Each team will be comprised of three student members from the same school and training program.

Equipment and Materials:

Material Supplied by PTC

3/8" x 4" x 8" with 30 degree bevels (mild steel) – SMAW vertical plate w/backup

¼" x 1 ½" x 10" mild steel – Backup strip for SMAW vertical plate

3/8" x 8" x 8" mild steel plate – Oxyacetylene layout and cutting project

1/8" x 2" x 6" mild steel - GTAW lap joint

1/8" x 2" x 6" 3003 Aluminum – GTAW lap joint

1/8" x 3" x 3" mild steel – Short circuit GMAW box

1/8" x 4' x 4' mild steel sheet – Hopper for team project

1/8" x 1 ½' mild steel angle – Hopper for team project

E7018 1/8" electrodes

ER70S-6 .035 Mig Wire

ER70S-2 3/32" Tig Wire

4043 3/32" Aluminum Tig Wire

Supplied by Contestant:

** Students will need to bring proper work clothes, steel toe work boots, safety glasses, welding coat, gloves, and welding helmet.

