



WELDING

Event Specifications

SCOPE OF CONTEST

Contestants will be assigned a welding task in both shielded arc and gas metal arc welding processes that will demonstrate skills developed at an intermediate level. In addition, a written exam will be given and a tool and material identification test will be required.

NUMBER OF COMPETITORS

Individual event, limited to 30 competitors.

Fresno ROP reserves the right to modify enrollment due to limited spaces available.

RULES AND PROCEDURES

1. All contestants must report to the "Bull Pen" of the welding shop for an event orientation by 8:30 a.m.
2. All exercises will have a specific time limit, which will be announced at the commencement of the competition. **All contestants must have the equipment specified below before starting the welding exercises and any violation of safety practices and precautions will be grounds for disqualification.**

JUDGING CRITERIA

Contestants will take a written exam with questions on welding and safety.

Contestants will make an identification of tools and materials common to the welding and metal working industry.

Demonstrate welding skills in the following welds with E7018, 6010 or 6011 electrodes:

Shielded Arc (stick)

1. Steel thickness 1/4" to 1/2" thick
2. Butt-joint flat position
3. Tee or inside corner weld horizontal position
4. Pipe to plate horizontal position
5. Lap joint - horizontal position

GMAW steel thickness 1/8" to 1/4"

1. Butt-joint flat position
2. Lap-joint - horizontal position
3. Tee or inside corner - horizontal position
4. Pipe to plate - horizontal position.

EQUIPMENT AND MATERIALS

1. Supplied by the contestant:
 - a. Welding helmet
 - b. Safety glasses (must wear at all times)
 - c. Coveralls or leathers
 - d. Hard-sole shoes with leather tops
 - e. Gloves
 - f. Diagonal cutters (for MIG Weld)
 - g. Pliers
 - h. Wire brush
 - i. Chipping hammer
 - j. Striker
 - k. Pencil with eraser
 - l. Tip cleaners

2. Supplied by the Career Skills Challenge:
 - a. Welding devices, electrodes, exercise metal
 - b. Identification tools and materials
 - c. All necessary information and furnishings for judges.
 - d. Numbered name tags
 - e. Scantrons

DRESS CODE

1. Wear appropriate clothing. Clothes must fit the body, no saggy and or baggy clothes will be allowed.
2. Students must wear closed toe shoes.
3. Students with long hair must keep hair in a pony tail or under a cap.
4. Long sleeve shirts must be kept buttoned at the sleeve, or rolled/pushed up.