



## WELDING - ADVANCED

### Event Specifications

#### SCOPE OF CONTEST

Contestants will be assigned a welding task in both gas metal arc and gas tungsten arc welding processes that will demonstrate skills developed at an advanced 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 25 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 GMAW/SMAW.

Gas metal Arc. Steel thickness 1/8" to 1/4" thick. Pipe 1"-3"

1. Butt-joint on horizontal position
2. Tee or inside corner weld vertical/up position
3. Lap joint - horizontal or vertical up or down position
4. Pipe to plate
5. Pipe saddle

Gas Tungsten with 10 gauge mild steel. Pipe 1"-3"

1. Butt-joint flat position
2. Lap-joint - horizontal position
3. Tee joint- horizontal position
4. Pipe saddle

## EQUIPMENT AND MATERIALS

1. Supplied by the contestant:
  - a. Welding helmet
  - b. Diagonal cutters (for MIG Weld)
  - c. Safety glasses (must wear at all times)
  - d. Coveralls or leathers
  - e. Hard-sole shoes with leather tops
  - f. Gloves
  - g. Pliers
  - h. Wire brush
  - i. Pencil with eraser
  
2. Supplied by the Career Skills Challenge:
  - a. Welding devices, electrodes, and 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.