Contest Description
Through a series of stations, competitors are tested on various aspects of welding, including measuring weld replicas, Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW). Competitors complete a steel project and weld an aluminum project in various positions using a variety of filler metals.

Mandatory Project
See attached blueprint

Each Contestant Will Need to Provide
- All PPEs required by OSHA
- Welding Helmet
- Chipping Hammer
- Wire Brush
- Pliers
- Soapstone/Marker
- Measuring Device

Material and Equipment Provided
- SMAW Machines
- GMAW Machines
- GTAW Machines
- FCAW Machines
- OAW Torch
- Consumables
  - E6010 (1/8”) SMAW
  - E7018 (1/8”) SMAW
  - ER70S-6 .035 GMAW
  - E71T-M .045 FCAW
  - ER4043 (3/32”) GTAW
- Materials – See attached blueprint

Notes
Each station will require the student to read instructions and to wear proper safety equipment provided by the student.
OTHERSIDE 2F - 1/4 ROOT ENTIRE LENGTH AND 2 PASS COVER (3/8 LEGS) ONLY HALF DISTANCE OF WELD JOINT
ARROWSIDE 3F UP - (1/4 LEGS) ENTIRE LENGTH OF JOINT

CONTESTANT NUMBER: ____
NOTE:
1. TACK ENTIRE WELDMENT TOGETHER BEFORE WELDING JOINTS
2. WELD EACH JOINT ACCORDING TO WELDING SYMBOLS
3. CONSIDER THERMAL EXPANSION TO PREVENT DISTORTION OF THE WELDMENT
4. DO NOT WIRE BRUSH COMPLETED WELDMENT