

Individual Welding Competition – Skills USA, Utah 2021

Overview:

We're excited to announce we will be holding the State Individual Welding competition this year! Having said that, it will be a virtual competition. Contestants will live-stream from their own school's welding lab.

This will require the contestant to select a friend or relative (cannot be their instructor) to operate a live-stream camera, tablet, or laptop during the competition. Links will be sent out the first week of March.

During the competition, we'll have a rotation for each process, and written exam (rotations will last 25 minutes this year). At the end of each rotation, the contestant will remain at their work station with the camera-man. Talking is not allowed.

All live stream proceedings will be monitored by the judges, and final pictures will be submitted digitally for each weld and cut at the end of the competition.

Uniform – Skills USA Uniforms must be worn to both the Pre-Contest Meeting and Contest. Failure to wear the Skills USA uniform will result in a 50-point deduction.

Resumes – Digital copy must be sent to the designated link by the end of the Pre-Contest meeting (see complete schedule below).

Schedule & Rotations:

Pre-Contest Meeting :	Thu, Mar 11, 4:30 - 5:00 pm	(Virtual Attendance Required - Link will be Provided)
Contest :	Thu, Mar 18, 8:30 -11:00 am	(Virtual Attendance Required - Link will be Provided)

Rotaion 1	Rotaion 2	Rotaion 3	Rotaion 4	Rotaion 5	Rotaion 6
8:30 - 8:55	8:55 - 9:20	9:20 - 9:45	9:45 - 10:10	10:10 - 10:35	10:35 - 11:00
GMAW	FCAW	SMAW	OXY-F	GTAW	WRITTEN EXAM

Rules & Guidelines:

1. Contestants are to observe all safety guidelines during the competition; including the wearing of **uniform, safety glasses, and closed-toe shoes** at all times.
2. There will be **(6) rotations, 25 minutes each**: GMAW-Carbon Steel, FCAW-Carbon Steel, SMAW-Carbon Steel, GTAW-Aluminum, Oxy Fuel Cutting-Carbon Steel, & Written Exam.
3. **Contestants will complete a total of 5 widgets**: (1) GMAW, (1) FCAW, (1) SMAW, (1) GTAW, & (1) Oxy Fuel (cutting only).
4. Once the drawings have been handed out, students are not allowed to talk to their instructors, or any other contestant regarding the drawings.
5. **Once the part has been tacked up, it must stay on its base during all welding.** The contestant will lose 50% of their points on that widget, if they're caught rotating it.
6. If a contestant finishes early during a rotation, they are to remain at their work station.
7. Contestants must remain at their work station until the end of the competition. No "going out for a snack." Contestants are allowed to keep a water bottle at their work station during the competition. (See full list of what's allowed below)

Scores Weighted as Follows:

GMAW Widget	175
FCAW Widget	175
SMAW Widget	175
GTAW Widget	175
Oxy-Fuel Widget	150
Written Exam	150
Total Points	1000

Equipment & Materials:

a. Welding Equipment (to be provided by the contestant's school):

GMAW
FCAW
SMAW
GTAW
Oxy Fuel Cutting

b. Filler Material (to be provided by the contestant's school):

GMAW: ER70S-6 .035"
FCAW: E71T-1 .045"
SMAW: E7018 1/8" & E6010 1/8"
GTAW: ER4043 1/16" & 3/32"

c. Base Material (to be provided by the contestant's school)

- Cutlist will be provided on Feb. 25
- Drawings will be released the morning of the competition

d. Uniform & Safety Gear (to be provided by the contestant):

1. Uniform
2. Safety Glasses
3. Closed-toe Shoes

e. Welding Gear (to be provided by the contestant):

1. Helmet
2. Jacket
3. Gloves
4. Shaded Glasses or Goggles

f. Allowable Tools (to be provided by the contestant):

1. Welpers or Pliers
2. Chipping Hammer
3. Brush (Stainless or Carbon Steel Wire)
4. Rounded or Flat Files
5. Soap Stone, or Sharpy Marker
6. Hammer and/or Center Punches
7. Tape Measure and/or Ruler

8. Protractor and/or Square
9. Magnetic Angle Finder
10. Fillet Gages
11. Crescent Wrench
12. C-Clamps of Any Size
13. Vise Grips of Any Size
14. Pocket Calculator (Cell Phones Not Allowed)
15. Lead Pencil and/or Writing Pen

Not Allowed:

- 1- Powered Tools of Any Type (If it plugs into the wall, don't bring it)
- 2- Cell Phones. If you're caught with it out during the written exam, you will forfeit all exam points.