

Welding



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

<p>Contest Location</p>	<p>C-Hall</p>
<p>Eligibility</p>	<ul style="list-style-type: none"> ▪ Please refer to the National Technical Standards for this contest. <ul style="list-style-type: none"> • Schools may send one competitor or team for every 50 paid SkillsUSA members based on local competition enrolled in a program where the scope of the contest described in the SkillsUSA Technical Content Standards reflects a major component of the program. • REGIONAL QUALIFIER – ONLY THE TOP 3 (THREE) FROM REGIONAL COMPETITION PROCEED TO STATE CHAMPIONSHIPS
<p>Clothing</p>	<p><u>Work Attire:</u></p> <p>Field specific work clothing required for the work environment or that matches the service conditions for the contest. This may include jeans if they are clean and professional looking and are accepted in the respective field (no holes or overly soiled pants). Work shoes or boots with a hard sole or anti-slip properties (steel toes may be required – refer to Provided by Contestant section below). Clothing should be as such that it will not get caught in moving equipment or power tools. School uniforms may be worn if they meet the above requirements with all identifiers covered.</p>
<p>Testing</p>	<ul style="list-style-type: none"> ▪ Students should be prepared to take a written knowledge test. ▪ Students should be prepared for a written SkillsUSA knowledge test. (Required for all contestants prior to contest day)
<p>Provided by Contestant (Tool List)</p>	<p><u>Documentation</u></p> <ul style="list-style-type: none"> ▪ Hard copy of one (1) page personal resume <p>Suitable work clothing (to match service conditions for welding process employed, must be fire resistant).</p> <ul style="list-style-type: none"> ▪ Leather jacket, cape, sleeves, or apron (optional) ▪ Leather gloves ▪ High-top leather safety shoes or boots (steel toes recommended) ▪ Welder's hat or skullcap ▪ Spectacles with side shields (clear lens)

- Burning goggles or face shield (OFC & PAC)
 - Two (2) each #5 filter plate/lens
 - Two (2) each clear cover plate/lens
- Noise protection (ear plugs)
- Welding helmet
- Spare batteries for helmet are recommended if you have auto lens
- Welding lenses (to match helmet design)
 - Two (2) each shaded filter plate/lens (#10 or #11)
 - Two (2) each clear cover plate lens

Personal Tools

- Carbon steel wire brush
- Stainless steel wire brush
- Grinder – attachments (no post weld grinding)
- Ball peen hammer, minimum 10 ounce
- Soapstone
- Two (2) # 2 pencils (sharpened)
- Center punch
- Metal scribe
- Steel dividers (radius maker min. 6")
- Handheld calculator

Measuring Devices

- Measuring Devices
- Steel tape measure (minimum 10')
- Combination square set
- English steel bench rule (min. 12")
- Protractor
- Metric ruler
- Clipping hammer
- Magnetic fixturing tool (optional)
- 10" mill file (half round-bastard cut) (optional)
- Cold chisel (size optional)
- Fillet weld gage
- Oxyfuel friction lighter (striker), flints and tip cleaners
- Pliers, wrenches, and clamps
- Vice grips or vice grip type clamp
- Side or diagonal cutting pliers
- Groove or slip joint pliers
- Tank wrench (optional)
- Needle nosed pliers (optional)
- 12" adjustable wrench (optional)

	<p><u>Welding Equipment</u></p> <ul style="list-style-type: none"> ▪ 3/32nd – 2% Th-2 Tungsten (red) (optional 2 pieces) ▪ 3/32nd – E3 Tungsten (purple) (optional 2 pieces)
<p>Special Notes</p>	<ul style="list-style-type: none"> ▪ Exhibit Halls do not open to observers until 12:00 pm. ▪ Contestants must have all applicable safety equipment listed below to participant. ▪ Contestants without all required tools listed below will be allowed to participate but may have difficulty completing some tasks without all required tools. ▪ All required tasks can be completed without personal tools listed as “optional”. However, some portions of the contest may be performed with greater ease by using these optional tools. ▪ Welding equipment is not to have any settings or connections changed by students during the walk through. Coupon material, electrodes and filler metal are <u>not</u> to be touched during the walk through. ▪ No smart watches, phones, or earbuds are permitted during the contest and/or in contest. ▪ No contact with anyone outside of the contest area once the contest begins. ▪ No inappropriate communication between contestants such as verbally degrading another contestant. ▪ No cheating on any portion of the contest such as informing another contestant of the skills/test prior to competing.
<p>National Technical Standards</p>	<ul style="list-style-type: none"> ▪ Please refer to the 2022-2023 National Technical Standards for all contests. Any and all standards included may be tested in any competition. ▪ In conjunction with National Standards, violations may result in student loss of contest.
<p>Resume</p>	<ul style="list-style-type: none"> • All SkillsUSA Ohio State Championship Contest will require a short interview component. Students should be prepared with basic job interview skills. • All contestants must have a hard copy of a one (1) page personal resume.