



Welding Fabrication

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

On-Site/Off-Site	<ul style="list-style-type: none">▪ On-Site
Contest Date	<ul style="list-style-type: none">▪ 4/9/2024
Contest Location	<ul style="list-style-type: none">▪ Convention Center▪ C-Hall
Early/Normal Start Time	<ul style="list-style-type: none">▪ Normal Start Time▪ Registration will open at 8:00am. Please report to B-Hall Show Office for Registration. The competition will be broken into two flight times.<ul style="list-style-type: none">○ The first flight will take place from 9:00am-12:00pm○ The second flight will take place from 1:00pm-4:00pm▪ SkillsUSA Ohio office will notify schools of their flight time once registration closes.
Contest Open/Closed	<ul style="list-style-type: none">▪ Open▪ Exhibit Halls do not open to observers until 12:00pm.
Eligibility	<ul style="list-style-type: none">▪ This contest has a Regional Qualifier Contest. The top three (3) candidates from the Regional Qualifiers will proceed to the State Championship Contest.
Competition Clothing (To be worn on Day 1)	<p>Work/School Attire:</p> <ul style="list-style-type: none">▪ 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).

	<ul style="list-style-type: none"> ▪ Shoes or work boots with a hard sole and anti-slip properties. ▪ Clothing should be as such that it will not get caught in moving equipment or power tools. ▪ Professional attire worn in the classroom (school uniforms) such as a criminal justice uniform, chef attire, health scrubs, or cosmetology scrubs etc. may be worn if they meet the above requirements. ▪ Note: School identifiers and contestant names must be covered.
<p>Safety Equipment Required</p>	<ul style="list-style-type: none"> ▪ Safety glasses with side shields or goggles (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles). ▪ Suitable work clothing (to match service conditions for welding process employed, must be fire resistant) ▪ Welding grade jacket, cape, sleeves, or apron ▪ 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 (PAC) ▪ #5 filter plate/lens ▪ Clear cover plate/lens ▪ Noise protection (ear plugs) ▪ Welding helmet <ul style="list-style-type: none"> ○ Spare batteries for helmet are recommended if you have auto lens ▪ Welding lenses (to match helmet design) ▪ Shaded filter plate/lens (#10 or #11) ▪ Clear cover plate lens
<p>Awards Ceremony Attire (To be worn on Day 2)</p>	<p>SkillsUSA Official Attire:</p> <ul style="list-style-type: none"> ▪ Official SkillsUSA red blazer ▪ Button-up, collared, white dress shirt (accompanied by a plain, solid black tie or SkillsUSA black tie), or white shirt (collarless or small-collared), with any collar not to extend into the lapel area of the blazer ▪ Black dress slacks or black dress skirt (knee-length at minimum) ▪ Black closed-toe dress shoes

	<ul style="list-style-type: none"> ▪ Note: Wearing socks or hose is no longer required. If worn, socks must be black dress socks, and hose must be either black or skin-tone and seamless/nonpattern <p>Or,</p> <p>Business Dress:</p> <ul style="list-style-type: none"> ▪ Blazer, sports coat, or dress ▪ Button-up, collared, white dress shirt (accompanied by a plain, solid black tie or SkillsUSA black tie), or white shirt (collarless or small-collared), with any collar not to extend into the lapel area of the blazer ▪ Dress slacks or dress skirt (knee-length at minimum) ▪ Closed-toe dress shoes ▪ Note: Wearing socks or hose is no longer required. If worn, socks must be black dress socks, and hose must be either black or skin-tone and seamless/nonpattern
Testing	<ul style="list-style-type: none"> ▪ Students should be prepared to take a written knowledge test.
Provided by Contestant (Tool List)	<p>Documentation:</p> <ul style="list-style-type: none"> ▪ One copy of a 1-page typed personal resume. Each team member must show to judges before starting fabrication. <p>Personal Tools:</p> <ul style="list-style-type: none"> ▪ Battery Powered Grinder (no post weld grinding) ▪ Carbon steel wire brush ▪ Ball peen hammer ▪ Soapstone ▪ Two #2 pencils (sharpened) ▪ Center punch ▪ Metal Scribe ▪ Steel dividers (radius maker min. 6") or compass, to mark steel for cutting ▪ Handheld calculator ▪ Paint Marker <p>Measuring Devices:</p> <ul style="list-style-type: none"> ▪ Combination square set ▪ English steel bench rule (min. 12")

	<ul style="list-style-type: none"> ▪ Protractor ▪ Chipping Hammer ▪ Magnetic fixturing tool ▪ 10" mill file (half round-bastard cut) ▪ Cold chisel ▪ Fillet weld gage ▪ Pliers, wrenches, and clamps ▪ Vice grips or vice grip type clamp ▪ Side or diagonal cutting pliers ▪ Groove or slip joint pliers ▪ Needle nosed pliers ▪ 12" adjustable wrench <p>Welding Equipment Supplied by Contest Coordinator:</p> <ul style="list-style-type: none"> ▪ Miller Multimatic 220 Welder ▪ Plasma Cutter ▪ 10 Spare .030 Contact Tips ▪ 2 Spare Nozzles ▪ 1 Plasma Spare Parts Kit <p>Supplied Welding Consumables:</p> <ul style="list-style-type: none"> ▪ .030 10# spool HB-28 MIG wire consumables supplied by Hobart Brothers ▪ Stick Electrode 3/32 - 7018
<p>Contest Notes, Themes, & Deadlines</p>	<ul style="list-style-type: none"> ▪ Fabrication prints will be received on the day of the competition during orientation.
<p>Special Notes</p>	<ul style="list-style-type: none"> ▪ Starting in 2024, all State Contests will begin to add a scenario-based component. ▪ Contact with Contest Coordinators is prohibited. Contact with Contest Coordinators outside of the SkillsUSA Ohio office may result in contestant disqualification. ▪ All safety requirements will be heavily enforced. Violation may result in contestant disqualification. ▪ No smart watches and/or phones 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 contest.

	<ul style="list-style-type: none"> ▪ No cheating on any portion of the contest such as informing another contestant of the skills/test prior to competing. ▪ Starting in 2024, Wi-Fi is provided for contests where it is required for contest success.
National Technical Standards	<ul style="list-style-type: none"> ▪ Please refer to the 2023-2024 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.
Resume/Interview Requirement	<ul style="list-style-type: none"> ▪ All SkillsUSA Ohio State Championship Contests 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.