



# Welding



<b>Date</b>	2/18/22	<b>Orientation Time</b>	8:30 a.m.
<b>Location</b>	Sentinel Career & Technology Center	<b>Contest Time</b>	*immediately after orientation
<b>Contest Coordinator</b>	Joe Steinmetz	<b>Contact Information</b>	419-618-1951
<b>Purpose</b>	To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of welding.		
<b>Eligibility</b>	1 contestant for every 50 paid members enrolled in program		
<b>Clothing</b>	<ul style="list-style-type: none"> <li>• Official SkillsUSA khaki work shirt and pants (both the shirt and pants must be 100 percent cotton); black, brown or tan leather work shoes; and safety glasses.</li> <li>• Or career field attire with school district name covered.</li> </ul>		
<b>Provided by Contestant</b>	<ul style="list-style-type: none"> <li>• Professional Resume – All competitors must create a one-page resume and submit a hard copy to the technical committee chair at orientation.</li> <li>• Leather welding jacket</li> <li>• Fireproof face mask</li> <li>• Hearing and/or ear protection</li> <li>• Welding helmet with appropriate filter plate/lens and protective cover plate/lens in a flip or slide front. Auto darkening shields are permissible</li> <li>• Spare spatter and filter lenses/plates for arc welding helmet and oxyacetylene</li> <li>• goggles</li> <li>• Pocket calculator</li> <li>• Lead pencil and/or ballpoint pen</li> <li>• Soap stone with holder</li> <li>• Scribe with magnet</li> <li>• Combination square set</li> <li>• 10-foot (3.1 meters) steel tape measure</li> <li>• Fillet weld gauge</li> <li>• 16-ounce (.45 kilogram) ball peen hammer</li> <li>• Center punch</li> <li>• 10-inch (254 millimeters) vise grips</li> <li>• 6-inch (152 millimeters) side cutting pliers or diagonal cutting pliers</li> <li>• 6-inch (152 millimeters) needle nose pliers</li> <li>• Chipping hammer with or without wire brush</li> <li>• Stainless steel wire brush</li> </ul>		
<b>Contest Skilled Performance Standards</b>	<p><b>W 4.0</b> - Produce welds using a Shielded Metal Arc Welding (SMAW) process to AWS QC10 standards.</p> <p><b>W 5.0</b> - Produce welds using a Gas Metal Arc Welding (GMAW) process to AWS QC10 standards.</p> <p><b>W 6.0</b> - Produce welds using a Fluxed Cored Arc Welding (FCAW) process to AWS QC10 standards.</p> <p><b>W 7.0</b> - Produce welds using a Gas Tungsten Arc Welding (GTAW) process to AWS QC10 standards.</p>		

**W 8.0** - Produce cut materials using an Oxygen Fuel Cutting (OFC) process to AWS QC10 standards.

*Please review the 2021-2022 SkillsUSA National Tech Standards for detailed information on each skilled performance standard.*