



# Welding



<b>Date</b>	February 5, 2022	<b>Orientation Time</b>	8:30 a.m.
<b>Location</b>	Hobart Institute of Welding Technology 400 Trade Square East Troy, Ohio 45373	<b>Contest Time</b>	8:45 a.m.
<b>Contest Coordinator</b>	Russell Crosthwaite	<b>Contact Information</b>	513-875-3984
<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>Testing</b>	Written and Performance Assessment		
<b>Eligibility</b>	1 contestant for every 50 paid members enrolled in program		
<b>Clothing</b>	Program Uniform or appropriate Clothing for Welding (No student or school information) Required PPE Wear. Safety glasses Z87, Boots, Pants, Shirt and Welding Jacket. All clothing must be in good condition free of loose threading, tears holes etc....it will not be accepted this will be considered a safety violation and Hobart will not allow students to compete.		
<b>Provided by Contestant</b>	Professional Resume Tools *Hearing and/or ear protection, *Welding gloves — full length (gauntlet) for SMAW, GMAW *Welding gloves — appropriate gloves for GTAW. *Welding cap/beanie. *Welding helmet with appropriate filter plate/lens and protective cover lens for tacking and welding; auto darkening filter plate/lens permissible. *Spare filter plate and cover lens. *Cutting goggles — with shade 5 lens/cover lens for OFC or helmet with shade 5 capability permissible; faceshield head gear with shade 5 permissible. *Spare filter and cover lens. *Pocket calculator. *Fillet weld gauge — standard set. *Lead pencil and/or ballpoint pen. *Soap stone with or without holder or Scribe *Protractor. *Combination square *10-foot (3.1 meters) minimum steel tape measure. *16-ounce (.45 kilogram) ball peen hammer. *Center punch. *Cold chisel. *11R or 10-inch (254 millimeters) vise grips. *6-inch (152 millimeters) side cutting pliers or diagonal cutting pliers. *6-inch (152 millimeters) needle nose pliers – welpers permissible.		

	<p>*Chipping hammer. w. Carbon steel wire brush. x. Stainless steel wire brush.          *Friction lighter (striker) and tip cleaner</p>
<p><b>Contest Skilled Performance Standards</b></p>	<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 Gas Tungsten Arc Welding (GTAW) process to AWS QC10 standards.</p> <p><b>W 7.0</b> - Produce cut materials using an Oxygen Fuel Cutting (OFC) process to AWS QC10 standards.</p> <p><i>Please review the 2021-2022 SkillsUSA National Tech Standards for detailed information on each skilled performance standard.</i></p>