



Welding



Date	March 12, 2022	Orientation Time	7:45 a.m.
Location	<p>Canton South High School Bus Garage (Backside)** 4526 Ridge SE Canton, OH 44707</p> <p><i>**Not the main school building – the Career Tech Center and bus garage are located in the "Hayden Career Technical Annex" Building. Door #3, located behind the bus garage by the tennis courts.</i></p>	Contest Time	8:15 a.m.
Contest Coordinator	Richard Clark	Contact Information	Richard.Clark@Cantonlocal.org 330-313-9198
Purpose	To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of welding.		
Testing			
Eligibility	1 contestant for every 50 paid members enrolled in program		
Clothing	All clothing will be as outlined in ANSI Z49.1. Pants must be suitable material to minimize the potential for ignition, burning or trapping of hot sparks. Shirts will be FR or made of cotton with no school labels. A welding jacket or leathers with bib and Leather gloves that will protect over the sleeve. Boots must be steel toed with leather high tops.		
Provided by Contestant	<p>Professional Resume</p> <ul style="list-style-type: none"> • Welding helmet with extra batteries, filter and cover lenses to suit. • Shade #5 or darker oxy-fuel cutting lens • Safety glasses (Must be ANSI Z87) • Hearing protection • Welding gloves—full length (gauntlet) for SMAW, GMAW and FCAW • Welding gloves — appropriate for GTAW • Chipping hammer • Carbon steel wire brush • Stainless wire brush • MIG welding pliers or needle nose pliers with side cuts • 11R locking C-Clamp • Striker and tip cleaner • Ball peen hammer • Cold chisel (size optional) • Center punch • File • Soapstone • Two pencils #2 		

	<ul style="list-style-type: none"> • Handheld calculator • Metal scribe • Compass • Combination square 12” • Protractor • Steel tape measure • 3/32 tungsten assortment to allow for Carbon, and Aluminum welding • Contestants will be required to provide all welding Personal Protective Equipment IAW ANSI Z49.1 • Contestants without all required “Personal Tools” will be allowed to participate, but may have difficulty completing some tasks without all personal tools. • Welding equipment is not to have any settings or connections changed by students during the walk through. • Each contestant will be provided a weldment for each welding process. They have been tacked together in order for judges to grade in a timely manner prior to the award ceremony. • Students will be graded on welds only and not fit-up
Contest Skilled Performance Standards	<p>W 4.0 - Produce welds using a Shielded Metal Arc Welding (SMAW) process to AWS QC10 standards.</p> <p>W 5.0 - Produce welds using a Gas Metal Arc Welding (GMAW) process to AWS QC10 standards.</p> <p>W 6.0 - Produce welds using a Fluxed Cored Arc Welding (FCAW) process to AWS QC10 standards.</p> <p>W 7.0 - Produce welds using a Gas Tungsten Arc Welding (GTAW) process to AWS QC10 standards.</p> <p>W 8.0 - 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>