



# Welding



<b>Date</b>	February 14, 2025 Snow Date – February 18, 2025	<b>Orientation Time</b>	10:45 a.m. (CLOSED to instructors)
<b>Location</b>	Vantage Career Center 818 N. Franklin Street Van Wert, OH 45891	<b>Contest Time</b>	Immediately Following Orientation (CLOSED contest)
<b>Scope of Contest</b>	<p>The skill performance assessment may include steel project(s), aluminum project(s), stainless steel project(s) in various positions using a variety of filler metals. Competitors will be involved in a series of stations testing various aspects of welding.</p> <ul style="list-style-type: none"> <li>• Competitors must correctly use the welding equipment during the competition. The contest coordinator or any judge may stop a competitor at any section of the competition if they deem a competitor’s manner to be hazardous to either themselves or others. Such a stoppage shall be documented as a warning. If the competitor is warned a second time, he or she may be disqualified for that section of the competition.</li> <li>• As soon as the competitors enter the competition area, no communication shall occur between the competitors or between the competitors and anyone else, except as directed by the contest coordinator or judges. Any such communication may result in the competitor being disqualified from that section of the competition.</li> <li>• Time limits will be established during the competition orientation.</li> <li>• Evaluation of the completed project will be judged visually. Nondestructive and/or destructive tests may be used to complete the project evaluation.</li> <li>• Welding and cutting instructions will be provided to the competitors and specified on the Welding Procedure Specifications (WPS) and prints provided in the welding booths and near cutting stations.</li> <li>• Welding equipment used in the competition may be obtained from a variety of manufacturers and may include transformers, rectifiers and/or inverters.</li> <li>• Filler metals will be detailed on the Welding Procedure Specification (WPS) and/or prints.</li> <li>• Welds will be evaluated visually using a scoring system as established by the contest coordinator. Nondestructive and/or destructive tests may be used to complete the project evaluation.</li> <li>• Print assembly tolerance will be +/- 1/16" unless otherwise noted.</li> <li>• If no print assembly dimensions are given to orient any project part, the part is to be approximately located based on the print’s isometric view.</li> </ul>		
<b>Written Testing</b>	No		
<b>Eligibility</b>	1 contestant for every 50 paid members enrolled in program		
<b>Clothing</b>	Clothing Classification Guide: CLASS D		
<b>Provided by Contestant</b>	Professional Resume – typed hardcopy Emergency Medical Form (Contestants must have this to compete) Leather welding jacket Welding Gloves		

	<p>Safety Glasses  Hearing and/or ear protection  Welding helmet with appropriate filter plate/lens and protective cover plate/lens in a flip or slide front. Auto darkening shields are permissible  Spare spatter and filter lenses/plates for arc welding helmet and oxyacetylene  Goggles  Tool Bag/Box/Bucket  Pocket calculator  Lead pencil and/or ballpoint pen  Compass/Protractor  Soap stone with holder  Scribe with magnet  Combination square set  10-foot (3.1 meters) steel tape measure  Fillet weld gauge  16-ounce (.45 kilogram) ball peen hammer  Center punch/Cold Chisel  10-inch (254 millimeters) vise grips  6-inch (152 millimeters) side cutting pliers or diagonal cutting pliers  6-inch (152 millimeters) needle nose pliers  Chipping hammer with or without wire brush  Stainless steel wire brush</p>	
<p><b>Contest Standards</b></p>	<p><b>Contest Skilled Performance Standards</b></p> <p><b>WF 3.0</b> – Read and interpret blueprints</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 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> <p><b>W 8.0</b> - Produce cut materials using an Oxygen Fuel Cutting (OFC) process to AWS QC10 standards.</p>	<p><b>Aligned ODEW Manufacturing Career Field Technical Content Standard Outcomes</b></p> <p><b>Outcome 6.1</b> Measurement and Interpretation</p> <p><b>Outcome 4.3</b> Arc Welding Process</p> <p><b>Outcome 4.6</b> Cutting Processes</p> <p>Above Outcomes can be found in the following ODEW courses:</p> <p>176000 Gas Metal Arc Welding</p> <p>176001 Shielded Metal Arc Welding</p> <p>176002 Flux Cored Arc Welding</p> <p>176003 Gas Tungsten Arc Welding</p>

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