

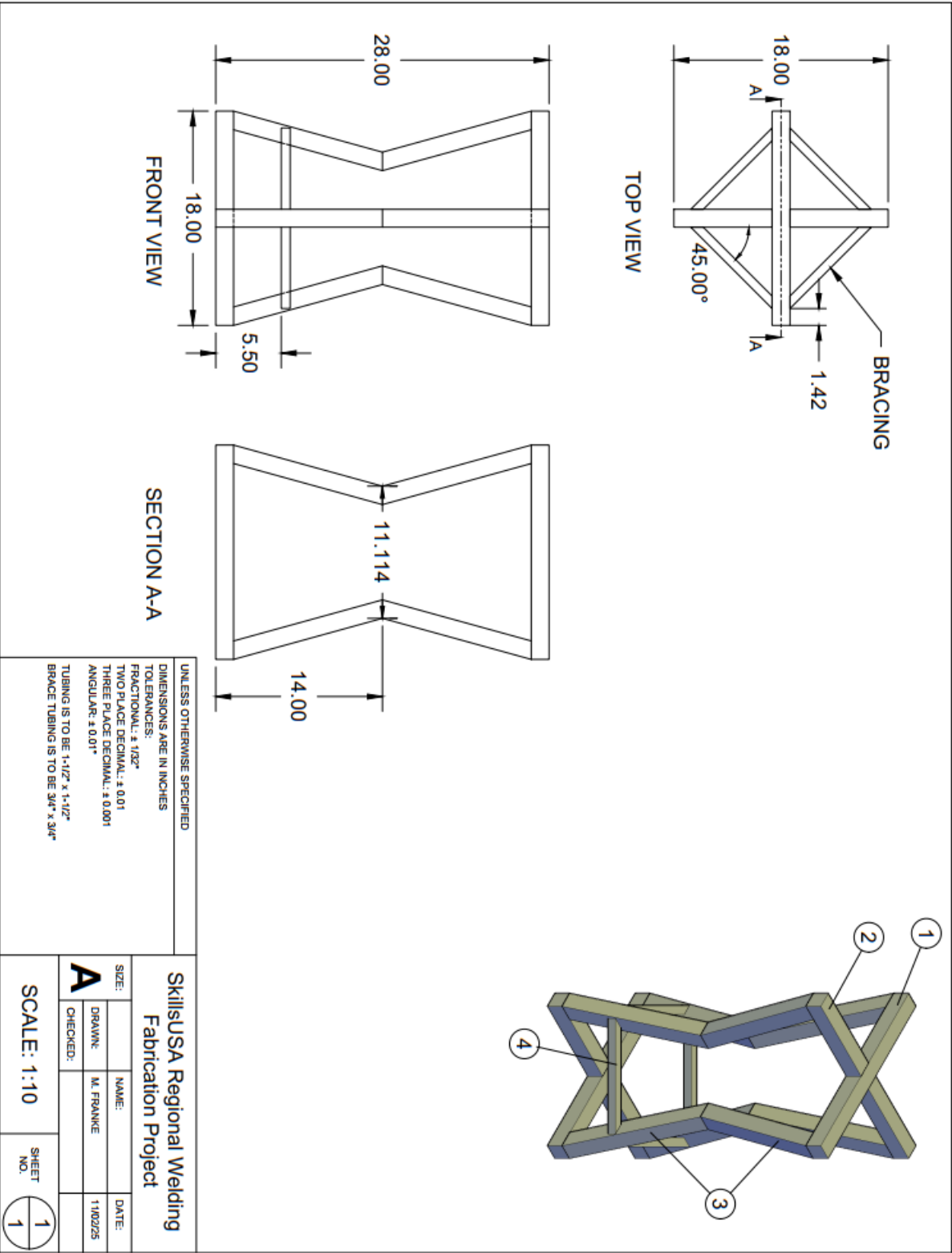


# Welding Fabrication



<b>Date</b>	February 27, 2026	<b>Orientation Time</b>	08:30 A.M
<b>Location</b>	Mahoning Co. CTC 7300 North Palmyra Drive Canfield, Ohio 44406	<b>Contest Time</b>	Immediately following orientation (CLOSED contest)
<b>Scope of Contest</b>	<p>The skill performance assessment includes the completion of a metal project according to a provided technical drawing. Please see Exhibits A, B and C below.</p> <p><b>Procedures for building the project:</b></p> <ul style="list-style-type: none"><li>• Only the three students participating in the competition are to work on the project.</li><li>• Students should complete a portfolio of their planning and production of the project with photos of work along the way.</li><li>• The finished project is to be brought to the location of the Regional Welding Competition.</li><li>• All three team members must be present at the Regional Welding Competition and be prepared to display their finished project and participate in an interview with the judges.</li><li>• The projects will be graded based on their accuracy and quality in relation to the blueprints.</li><li>• The portfolio will be used to validate the process and work completed in the project.</li><li>• Schools will be able to keep the projects.</li></ul> <p><b>Rules and Requirements for Project:</b></p> <ul style="list-style-type: none"><li>• Project is to be assembled/welded as show in the drawings.</li><li>• NO post-weld grinding. Points will be deducted for any post-weld grinding.</li><li>• Students may cut materials with any cutting process desired (I.e. Metal shear, plasma, oxy-fuel, CNC etc.)</li><li>• SMAW/FCAW/GMAW/GTAW are the only processes to be used in fabrication and assembly of the project.</li><li>• Project can be welded with just one or any combination of the processes listed above.</li><li>• No paint or clearcoat is to be used on the project.</li><li>• Student will decide type/size/location of welds on fabricated parts and be able to explain those decisions during the interview.</li><li>• Student will add weld symbols to drawing that were used during fabrication of the project and the weld symbols may be drawn in ink.</li><li>• Project needs to have a top; but the material is the competitor's choice and cannot be fastened (i.e. set on top with cork or felt discs so the judges can lift off).</li></ul> <p><b>At the regional contest your team will need to:</b></p> <ul style="list-style-type: none"><li>• Provide the completed project.</li><li>• <b>Provide a portfolio with elements listed on scoring rubric.</b></li><li>• Participate in an interview presentation.</li></ul>		
<b>Testing</b>	NO		
<b>Eligibility</b>	1 team for every 50 members enrolled in program		

<b>Clothing</b>	Clothing Classification Guide: CLASS A or F	
<b>Provided by Contestant</b>	Professional Résumé – typed hardcopy Emergency Medical Form (Contestants must have this to compete) All elements listed in Scope of Contest  <u>The following WILL NOT be tolerated and are grounds for disqualification from the competition:</u> <ul style="list-style-type: none"> <li>o No smart watches, cellphones and/or other electronic devices in the contest area unless specifically stated in this document. These devices cannot be used as a calculator.</li> <li>o No contact with anyone outside of the contest area once the contest begins.</li> <li>o No inappropriate communication between contestants such as verbally degrading another contestant or informing another contestant of the skills/test prior to or during the competition.</li> <li>o No cheating on any portion of the contest.</li> <li>o The use of AI is strictly prohibited and will result in an automatic disqualification of the contestant.</li> </ul>	
<b>Contest Standards</b>	<b>Contest Skilled Performance Standards</b>  <b>WF 3.0</b> – Read and interpret blueprints  <b>WF 4.0</b> - Produce welds using a Shielded Metal Arc Welding (SMAW) process to AWS QC10 standards.  <b>WF 5.0</b> - Produce welds using a Gas Metal Arc Welding (GMAW) process to AWS QC10 standards.  <b>WF 6.0</b> - Produce welds using a Fluxed Cored Arc Welding (FCAW) process to AWS QC10 standards.  <b>WF 7.0</b> - Produce welds using a Gas Tungsten Arc Welding (GTAW) process to AWS QC10 standards.  <b>WF 8.0</b> - Produce cut materials using an Oxygen Fuel Cutting (OFC) process to AWS QC10 standards.	<b>Aligned ODEW Manufacturing Career Field Technical Content Standard Outcomes</b>  <b>Outcome 6.1</b> Measurement and Interpretation <b>Outcome 6.2</b> Layout and Planning  <b>Outcome 4.3</b> Arc Welding Process  <b>Outcome 4.3</b> Arc Welding Process  <b>Outcome 4.3</b> Arc Welding Process  <b>Outcome 4.3</b> Arc Welding Process  <b>Outcome 4.6</b> Cutting Processes  Above Outcomes can be found in the following ODEW courses: 176000 Gas Metal Arc Welding 176001 Shielded Metal Arc Welding 176002 Flux Cored Arc Welding 176003 Gas Tungsten Arc Welding 176015 Welding Fabrication



**Exhibit B:**  
Image for  
Visualization  
only



<b>Category Evaluated</b> 3 team members present <input type="checkbox"/> Yes <input type="checkbox"/> No (Cannot medal if less than 3)	Possible Points	Point Breakdown	Points Awarded
<b>Portfolio Folder</b> Portfolio must contain the following items: 1. Cover sheet with a blank to write the contestant number (Number will be provided the day of the event) 2. Provide at least 3 <u>photos</u> a. Initial material mark-ups and how you will cut it. b. Materials once cut into proper dimensions. Include waste in your photo. c. Fully assembled project. 3. A copy of the plans for the project including weld symbols used (can be added by hand).	200 pts.	<ul style="list-style-type: none"> <li>Cover page – 30</li> <li>Layout photo – 30</li> <li>Material photo – 30</li> <li>Fully Assembled photo – 30</li> <li>Welding plans – 40</li> <li>Neatness – 40</li> </ul>	
<b>Interview Presentation:</b> <ul style="list-style-type: none"> <li>Throughout <u>Interview</u> and Presentation all three students need to take a part in the presentation and demonstrate they were actively engaged in the project.</li> <li>Students should have a professional presentation and appearance.</li> <li>Students should use the portfolio as a reference and be able to show correlation of welds on the project to the welds on the plans.</li> <li>Students should explain how they constructed the project as a <u>team</u>.</li> <li>Students should explain any challenges faced and how they worked through.</li> </ul>	200 pts	<ul style="list-style-type: none"> <li>All 3 team members participate in presentation – <u>40</u></li> <li>Eye Contact and Professionalism – 40</li> <li>Use of Portfolio in Presentation - 40</li> <li>Decision-Making Process and weld selection - 40</li> <li>Challenges – 40</li> </ul>	
<b>Welds and Measurements</b> <ul style="list-style-type: none"> <li>Correct materials (any materials not on original Bill of Materials equals 0 points)</li> <li>Weld process selection</li> <li>Weld quality</li> </ul>	200 pts	<ul style="list-style-type: none"> <li>Materials – 50</li> <li>Weld selection – 50</li> <li>Weld quality – 100</li> </ul>	
<b>Assembly Inspection</b> <ul style="list-style-type: none"> <li>Demonstrate ability to use the project as intended.</li> <li>Project is level and safe to handle.</li> <li>Project is stable when loads are applied.</li> </ul>	200 pts	<ul style="list-style-type: none"> <li>Ability to use the project as intended - <u>50</u></li> <li>Level and safe to handle - <u>50</u></li> <li>Stability – 100</li> </ul>	
<b>Quality and Craftsmanship</b> <ul style="list-style-type: none"> <li><u>Final</u> product meets minimum specifications of the customer.</li> <li>Quality of work and pride demonstrated in this product.</li> <li>This is a saleable item to a customer, excluding post weld grinds required (customer-ready)</li> <li>Individuals demonstrated pride and craftsmanship in their work and presentation</li> </ul>	200 pts	<ul style="list-style-type: none"> <li>Meets Specifications – 50</li> <li>Quality – 50</li> <li>Customer Ready – 50</li> <li>Personal craftsmanship - 50</li> </ul>	
<b>TOTAL Score</b>	1000	Record Total Here →	