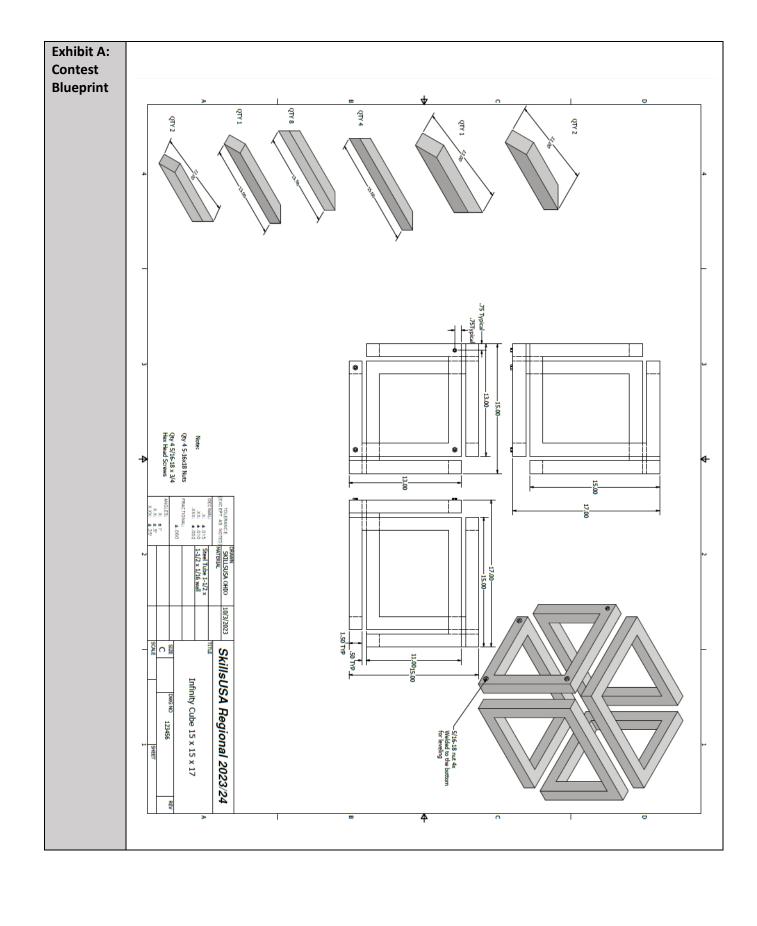


## Welding Fabrication Skil



Date	March 1, 2024	Orientation Time	7:30 a.m.
Date		Offentation fille	(CLOSED to instructors)
	Delaware Area Career Center		Immediately following
Location	4565 Columbus Pike	Contest Time	orientation
	Delaware, OH 43035		(CLOSED contest)
Scope of	The skill performance assessment includ	·	I project according to a
Contest	provided technical drawing. Please see I	Exhibits A, B, and C Below.	
	Procedures for building the project:		
	<ul> <li>Only the three students participating</li> </ul>	in the competition are to w	ork on the project.
	Students should complete a portfolio	of their planning and produ	iction of the project with
	photos of work along the way.		
	The finished project is to be brought	_	
	<ul> <li>All three team members must be pre prepared to display their finished pro</li> </ul>	_	• ,
	<ul> <li>The projects will be graded based on</li> </ul>		
	<ul> <li>The projects will be graded based on</li> <li>The portfolio will be used to validate</li> </ul>		
	<ul> <li>Schools will be able to keep the projection</li> </ul>		reted in the project.
	Rules and Requirements for Project:		
	Project is to be assembled/welded as	show in the drawings.	
	<ul> <li>NO post-weld grinding. Points will be</li> </ul>	deducted for any post-weld	grinding.
	<ul> <li>Students may cut materials with any</li> </ul>	cutting process desired (I.e.	Metal shear, plasma, oxy-
	fuel, CNC etc.)		
	<ul> <li>SMAW/FCAW/GMAW/GTAW are the the project.</li> </ul>		
	Project can be welded with just one of		ocesses listed above.
	No paint or clearcoat is to be used or	• •	
	<ul> <li>Student will decide type/size/location those decisions during the interview.</li> </ul>		ts and be able to explain
	Student will add weld symbols to dra	-	fabrication of the project and
	the weld symbols may be drawn in in	ık.	
	At the regional contest your team will n	eed to:	
	<ul> <li>Provide the completed project.</li> </ul>		
	<ul> <li>Provide a portfolio with elements lis</li> </ul>	ted on scoring rubric.	
	<ul> <li>Participate in an interview presentation</li> </ul>	on.	
Testing	NO		
Eligibility	1 team for every 50 members enrolled in		
Clothing	Work Attire: Field specific work clothing	•	
	service conditions for the contest. This m		
	looking and are accepted in the respective	ve neia (no noies or overly s	oned pants). Work shoes or

	Contestant section below). Clothing sho	rties (steel toes may be required – refer to <b>Provided by</b> uld be as such that it will not get caught in moving
	with all identifiers covered.	rms may be worn if they meet the above requirements
Provided	Professional Resume – typed hardcopy	
by Contestant	Emergency Medical Form (Contestants r	nust have this to compete)
Contest	All elements listed in Scope of Contest  Contest Skilled Performance	Aligned ODE Manufacturing Career Field Technical
Standards	Standards	Content Standard Outcomes
	WF 3.0 – Read and interpret blueprints	Outcome 6.1 Measurement and Interpretation Outcome 6.2 Layout and Planning
	WF 4.0 - Produce welds using a Shielded Metal Arc Welding (SMAW) process to AWS QC10 standards.	Outcome 4.3 Arc Welding Process
	WF 5.0 - Produce welds using a Gas Metal Arc Welding (GMAW) process to AWS QC10 standards.	Outcome 4.3 Arc Welding Process
	WF 6.0 - Produce welds using a Fluxed Cored Arc Welding (FCAW) process to AWS QC10 standards.	Outcome 4.3 Arc Welding Process
	<b>WF 7.0</b> - Produce welds using a Gas Tungsten Arc Welding (GTAW) process to AWS QC10 standards.	Outcome 4.3 Arc Welding Process
	WF 8.0 - Produce cut materials using	Outcome 4.6 Cutting Processes
	an Oxygen Fuel Cutting (OFC) process to AWS QC10 standards.	Above Outcomes can be found in the following ODE
	to AWS QCTO Standards.	courses:
		176000 Gas Metal Arc Welding
		176001 Shielded Metal Arc Welding 176002 Flux Cored Arc Welding
		176002 Flux Cored Arc Welding 176003 Gas Tungsten Arc Welding
		176015 Welding Fabrication



	Record Total Here →	1000	TOTAL Score
	<ul> <li>Meets Specifications – 50</li> <li>Quality – 50</li> <li>Customer Ready – 50</li> <li>Personal craftsmanship - 50</li> </ul>	200 pts	Quality and Craftsmanship
	<ul> <li>Ability to use the project as intended - 50</li> <li>Level and safe to handle - 50</li> <li>Stability - 100</li> </ul>	200 pts	<ul> <li>Assembly Inspection</li> <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>
	<ul> <li>Materials – 50</li> <li>Weld selection – 50</li> <li>Weld quality – 100</li> </ul>	200 pts	Welds and Measurements
	<ul> <li>All 3 team members participate inpresentation – 40</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>	200 pts	<ul> <li>Interview Presentation:</li> <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 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 tem</li> <li>Students should explain any challenges faced and how they worked through.</li> </ul>
	<ul> <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>	200 pts.	<ol> <li>Portfolio Folder</li> <li>Portfolio must contain the following items:         <ol> <li>Cover sheet with a blank to write the contestant number (Number will be provided the day of the event)</li> <li>Provide at least 3 <u>photos</u> <ol> <li>Initial material mark-ups and how you will cut it.</li> <li>Materials once cut into proper dimensions. Include waste in your photo.</li> <li>Fully assembled project.</li> <li>A copy of the plans for the project including weld symbols used (can be added by hand).</li> <li>A copy of the plans for the project including weld symbols used (can be added by hand).</li></ol></li></ol></li></ol>
Points Awarded	Point Breakdown	Possible Points	Category Evaluated 3 team members present ☐ Yes [] No (Cannot medal if less than 3)

Exhibit B: Contest Scoring Rubric

