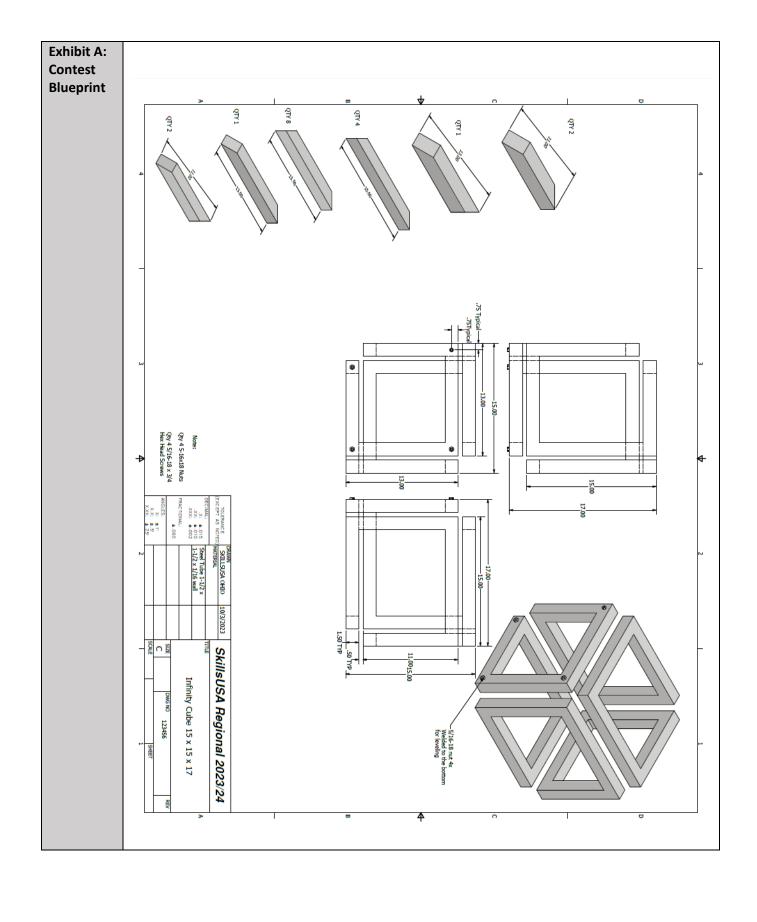


## Welding Fabrication Skil



Date	February 10, 2024	Orientation Time	8:00 a.m. (OPEN to instructors)
Location	Hobart Institute of Welding Technology 400 Trade Square East Troy, Ohio 45373	Contest Time	Immediately following orientation (OPEN contest)
Scope of	The skill performance assessment includ	-	l project according to a
Contest	provided technical drawing. Please see	Exhibits A, B, and C Below.	
	Procedures for building the project:		
	<ul> <li>Only the three students participating</li> <li>Students should complete a portfolion photos of work along the way.</li> <li>The finished project is to be brought</li> <li>All three team members must be prepared to display their finished professor</li> <li>The projects will be graded based on</li> <li>The portfolio will be used to validate</li> <li>Schools will be able to keep the projects</li> </ul>	to their planning and products to the location of the Region sent at the Regional Weldin oject and participate in an in their accuracy and quality in the process and work comp	nal Welding Competition. g Competition and be terview with the judges. n relation to the blueprints.
	Rules and Requirements for Project:		
	<ul> <li>Project is to be assembled/welded as</li> <li>NO post-weld grinding. Points will be</li> <li>Students may cut materials with any fuel, CNC etc.)</li> <li>SMAW/FCAW/GMAW/GTAW are the the project.</li> <li>Project can be welded with just one of the project of the second or student will decide type/size/location those decisions during the interview.</li> <li>Student will add weld symbols to draw the weld symbols may be drawn in interview.</li> </ul>	e deducted for any post-welc cutting process desired (I.e. e only processes to be used in or any combination of the pro- in the project. In of welds on fabricated para- lewing that were used during lik.	Metal shear, plasma, oxynatication and assembly of rocesses listed above.  Its and be able to explain
	At the regional contest your team will n	need to:	
	Provide the completed project.	and an anadra with the	
	<ul> <li>Provide a portfolio with elements lis</li> <li>Participate in an interview presentat</li> </ul>		
Testing	NO	· <del>··</del> ···	
Eligibility	1 team for every 50 members enrolled in	n program	
Clothing	Work Attire: Field specific work clothing	required for the work envir	
	service conditions for the contest. This n	nay include jeans if they are	clean and professional

	boots with a hard sole or anti-slip prope <b>Contestant</b> section below). Clothing sho	ve field (no holes or overly soiled pants). Work shoes or rties (steel toes may be required – refer to <b>Provided by</b> uld be as such that it will not get caught in moving rms may be worn if they meet the above requirements
Provided	Professional Resumé – typed hardcopy	
by	Emergency Medical Form (Contestants r	must have this to compete
Contestant	All elements listed in Scope of Contest	
Contest Standards	Contest Skilled Performance Standards	Aligned ODE Manufacturing Career Field Technical 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
	<b>WF 8.0</b> - Produce cut materials using	Outcome 4.6 Cutting Processes
	an Oxygen Fuel Cutting (OFC) process	The catting i rocesses
	to AWS QC10 standards.	Above Outcomes can be found in the following ODE courses:
		176000 Gas Metal Arc Welding 176001 Shielded Metal Arc Welding 176002 Flux Cored Arc Welding
		176003 Gas Tungsten Arc Welding 176015 Welding Fabrication



Category Evaluated  3 team members present	Points	T OTHE PI CANGONII	Awarded
Portfolio Folder 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)	200 pts.	<ul> <li>Cover page – 30</li> <li>Layout photo – 30</li> <li>Material photo – 30</li> <li>Fully Assembled photo – 30</li> </ul>	
<ol> <li>Provide at least 3 <u>photos</u> <ul> <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> </ul> </li> <li>A copy of the plans for the project including weld symbols used (can be added by hand).</li> </ol>		<ul> <li>Welding plans = 40</li> <li>Neatness = 40</li> </ul>	
Interview Presentation:	200 pts	All 3 team members	
<u>rview</u> and Presentation all three students need to take a part in the presentation they were actively engaged in the project.	,	participate inpresentation –	
<ul> <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</li> </ul>		<ul> <li>Eye Contact and Professionalism – 40</li> </ul>	
<ul> <li>Students should explain how they constructed the project as a tem</li> </ul>		<ul> <li>Use of Portfolio in Presentation - 40</li> </ul>	
Students should explain any challenges faced and how they worked through.		<ul> <li>Decision-Making Process and weld selection - 40</li> </ul>	
_		Challenges – 40	
Welds and Measurements  Correct materials (any materials not on original Bill of Materials equals 0 points)  Weld process selection  Weld quality	200 pts	<ul> <li>Materials – 50</li> <li>Weld selection – 50</li> <li>Weld quality – 100</li> </ul>	
Assembly Inspection  Demonstrate ability to use the project as intended.  Project is level and safe to handle.	200 pts	<ul> <li>Ability to use the project as intended - 50</li> <li>Level and safe to handle - 50</li> </ul>	
<ul> <li>Project is stable when loads are applied.</li> </ul>		Stability – 100	
Quality and Craftsmanship  • Final product meets minimum specifications of the customer.	200 pts	<ul> <li>Meets Specifications – 50</li> <li>Quality – 50</li> </ul>	
<ul> <li>Quality of work and pride demonstrated in this product.</li> </ul>		Customer Ready — 50	
<ul> <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>		Personal craftsmanship - 50	
TOTAL Same		Docard Tatal Hara	

Exhibit B: Contest Scoring Rubric

