

Welding Fabrication



	February 16, 2024		10:45 AM							
Date	Snow Date – February 20, 2024	Orientation Time	(CLOSED to instructors)							
	Vantage Career Center		Immediately Following							
Location	818 N. Franklin Street	Contest Time	Orientation							
	Van Wert, OH 45891		(CLOSED contest)							
Scope of	The skill performance assessment include	•	al project according to a							
Contest	provided technical drawing. Please see Exhibits A, B, and C Below.									
	Procedures for building the project:									
	Only the three students participating	in the competition are to w	ork on the project.							
	 Students should complete a portfolio of their planning and production of the project with 									
	photos of work along the way.									
	The finished project is to be brought to the location of the Regional Welding Fabrication									
	competition.									
	All three team members must be present at the Regional Welding Competition and be									
	prepared to display their finished pro									
	The projects will be graded based onThe portfolio will be used to validate									
	 Schools will be able to keep the projection 	·	neted in the project.							
	Schools will be able to keep the proje	ects.								
	Rules and Requirements for Project:									
	Project is to be assembled/welded as show in the drawings.									
	NO post-weld grinding. Points will be deducted for any post-weld grinding.									
	Students may cut materials with any cutting process desired (I.e. Metal shear, plasma, oxy-									
	fuel, CNC etc.)									
	SMAW/FCAW/GMAW/GTAW are the only processes to be used in fabrication and assembly of									
	the project.									
	Project can be welded with just one or any combination of the processes listed above. No point or clearcest into be used on the project.									
	 No paint or clearcoat is to be used on the project. Student will decide type/size/location of welds on fabricated parts and be able to explain 									
	those decisions during the interview.									
	Student will add weld symbols to drawing that were used during fabrication of the project									
	and the weld symbols may be drawn in ink.									
	At the regional contest your team will r	At the regional contest your team will need to:								
	Provide the completed project.									
	Provide a portfolio with elements listed on scoring rubric.									
	Participate in an interview presentation.									
Testing	NO									
Eligibility	1 team for every 50 members enrolled in	n program								

Clothing	Work Attire: Field specific work clothing required for the work environment or that me service conditions for the contest. This may include jeans if they are clean and profess looking and are accepted in the respective field (no holes or overly soiled pants). Work boots with a hard sole or anti-slip properties (steel toes may be required – refer to Proceed to the Proceed to Proceed						
Provided	Professional Resume – must be typed and physically produced as a hard copy						
by	• Emergency Medical Form (Contestants must have this to compete)						
Contestant	All elements listed in Scope of Contest						
Contest Standards	Contest Skilled Performance Standards	Aligned ODEW Manufacturing Career Field Technica 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					
	WF 7.0 - 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 an Oxygen Fuel Cutting (OFC) process to AWS QC10 standards.	Outcome 4.6 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					

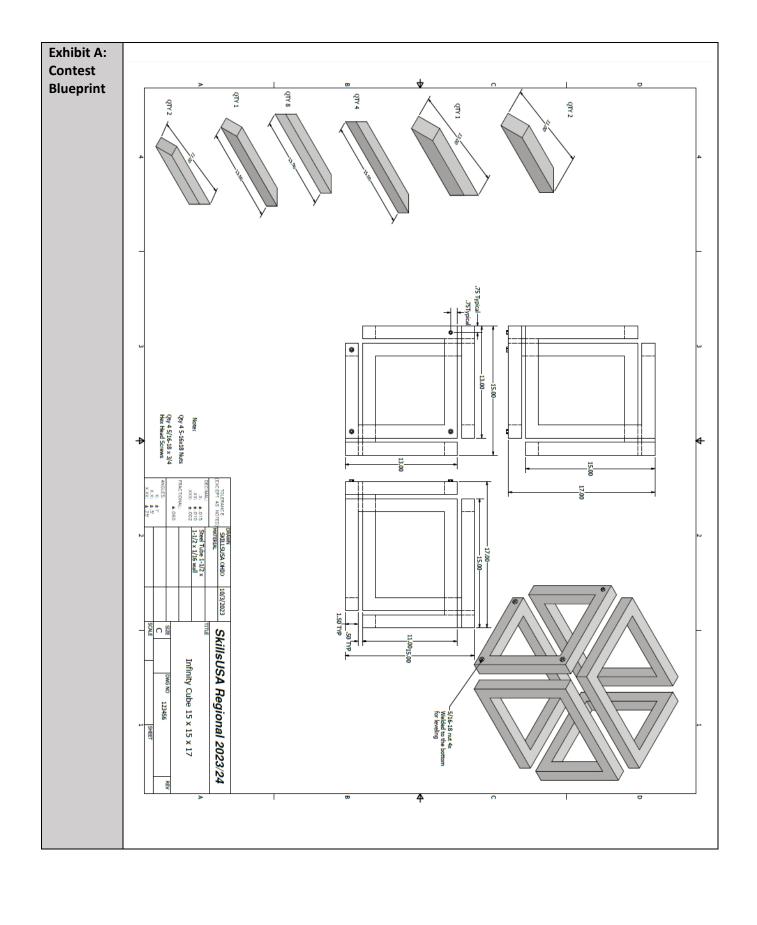


Exhibit B: Contest Scoring Rubric	TOTAL Score	Quality and Craftsmanship Enal product meets minimum specifications of the customer. Quality of work and pride demonstrated in this product. This is a saleable item to a customer, excluding post weld grinds required (customer-ready) Individuals demonstrated pride and craftsmanship in their work and presentation	Assembly Inspection Demonstrate ability to use the project as intended. Project is level and safe to handle. Project is stable when loads are applied.	 Welds and Measurements Correct materials (any materials not on original Bill of Materials equals 0 points) Weld process selection Weld quality 	 Interview Presentation: 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. Students should have a professional presentation and appearance. Students should use the portfolio as a reference andbe able to show correlation of welds on the project to the welds on the plans. Students should explain how they constructed the project as a tem Students should explain any challenges faced and how they worked through. 	 Portfolio Folder Portfolio must contain the following items: Cover sheet with a blank to write the contestant number (Number will be provided the day of the event) Provide at least 3 <u>photos</u> Initial material mark-ups and how you will cut it. Materials once cut into proper dimensions. Include waste in your photo. Fully assembled project. A copy of the plans for the project including weld symbols used (can be added by hand). 	Category Evaluated 3 team members present ☐ Yes [] No (Cannot medal if less than 3)
	1000	200 pts	200 pts	200 pts	200 pts	200 pts.	Possible Points
	Record Total Here →	 Meets Specifications – 50 Quality – 50 Customer Ready – 50 Personal craftsmanship - 50 	 Ability to use the project as intended - 50 Level and safe to handle - 50 Stability - 100 	 Materials – 50 Weld selection – 50 Weld quality – 100 	 All 3 team members participate inpresentation – 40 Eye Contact and Professionalism – 40 Use of Portfolio in Presentation - 40 Decision-Making Process and weld selection - 40 Challenges – 40 	 Cover page - 30 Layout photo - 30 Material photo - 30 Fully Assembled photo - 30 Welding plans - 40 Neatness - 40 	Point Breakdown
							Points Awarded

