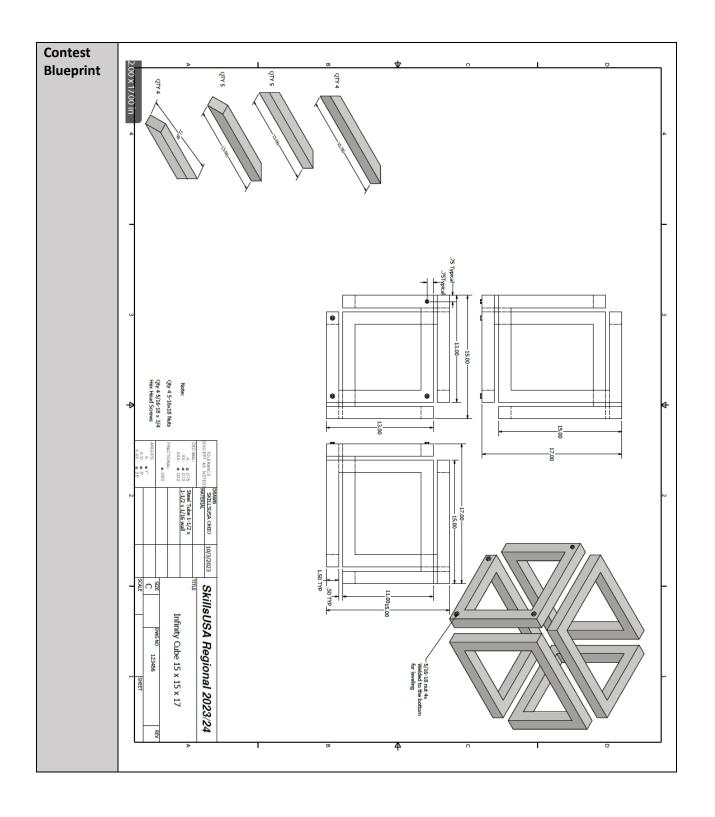


Welding Fabrication Skil



			8:00 a.m.
Date	March 1, 2024	Orientation Time	(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 incl	udes the completion of a i	
Contest	a provided technical drawing. Please	see Exhibits A, B, and C Be	low.
	Procedures for building the project:		
	Only the three students participat	ing in the competition are	to work on the project.
	Students should complete a portform		
	with photos of work along the way		
	 The finished project is to be broug 	ht to the location of the R	egional Welding
	Competition.		
	All three team members must be property of the display the infinite and the display the infinite and the display the infinite and the display the	_	•
	prepared to display their finished	project and participate in a	an interview with the
	judges.The projects will be graded based	on their accuracy and qua	lity in relation to the
	blueprints.	on their accuracy and qua	inty in relation to the
	The portfolio will be used to validate	ate the process and work o	ompleted in the project.
	 Schools will be able to keep the pr 	•	ompleted in the projecti
		•	
	Rules and Requirements for Project:		
	 Project is to be assembled/welded 	_	
	NO post-weld grinding. Points will		
	 Students may cut materials with a oxy-fuel, CNC etc.) 	ny cutting process desired	(l.e. Metal shear, plasma,
	 SMAW/FCAW/GMAW/GTAW are assembly of the project. 	the only processes to be u	sed in fabrication and
	 Project can be welded with just or 	e or any combination of t	he processes listed above.
	No paint or clearcoat is to be used		•
	Student will decide type/size/loca	tion of welds on fabricated	d parts and be able to
	explain those decisions during the		
	Student will add weld symbols to a	•	iring fabrication of the
	project and the weld symbols may	be drawn in ink.	
	At the regional contest your team wi	ll need to:	
	Provide the completed project.		
	Provide a portfolio with elements	listed on scoring rubric.	
	Participate in an interview present	tation.	
Testing	NO		
Eligibility	1 team for every 50 members enrolled	d in program	

Provided by Contestant Contest	matches the service conditions for the professional looking and are accepted pants). Work shoes or boots with a harequired – refer to Provided by Conte	y es must have this to compete)
Standards	Standards WF 3.0 – Read and interpret blueprints	Content Standard Outcomes 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. WF 6.0 - Produce welds using a Fluxed Cored Arc Welding (FCAW)	Outcome 4.3 Arc Welding Process 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
Exhibit A:	WF 8.0 - Produce cut materials using an Oxygen Fuel Cutting (OFC) process 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



c	c		
Category Evaluated 3 team members present ☐ Yes [] No (Cannot medal if less than 3)	Possible Points	Point Breakdown	Points 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) 2. Provide at least 3 photos 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.	 Cover page - 30 Layout photo - 30 Material photo - 30 Fully Assembled photo - 30 Welding plans - 40 Neatness - 40 	
 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 and be 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. 	200 pts	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	
Welds and Measurements	200 pts	 Materials – 50 Weld selection – 50 Weld quality – 100 	
 Assembly Inspection Demonstrate ability to use the project as intended. Project is level and safe to handle. Project is stable when loads are applied. 	200 pts	 Ability to use the project as intended - 50 Level and safe to handle - 50 Stability - 100 	
Quality and Craftsmanship	200 pts	 Meets Specifications – 50 Quality – 50 Customer Ready – 50 Personal craftsmanship - 50 	
TOTAL Score	1000	Record Total Here →	

Exhibit B: Contest Scoring Rubric

Exhibit B: Exhibit C: Project Example