Welding Fabrication

Date	25 February 2023	**Orientation Time**	7:30 am
Location	Maplewood Career Center	**Contest Time**	Immediately following Orientation
Purpose	To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of welding fabrication.		
Testing	No		
Eligibility	1 team for every 50 members enrolled in program		
Clothing	Work Attire: Field specific work clothing required for the work environment or that matches the service conditions for the contest. This may include jeans if they are clean and professional looking and are accepted in the respective field (no holes or overly soiled pants). Shoes or work boots with a hard sole and anti-slip properties (steel toes may be required). Clothing should be as such that it will not get caught in moving equipment or power tools. School uniforms may be worn if they meet the above requirements with all identifiers covered.		
Provided by Contestant	Professional Resume Emergency Medical Forms (Contestants must have this to compete) Verification of Tool Training and Safety (Contest Specific See forms on SkillsUSA Ohio Web site)		
	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	
	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. *Please review the 2022-2023 SkillsUSA National Tech Standards for detailed information on each skilled performance standard.*	**Outcome 4.6** Cutting Processes 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

2023 Regional "Welding Fabrication" Contest Rules:

Purpose: To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of welding.

Testing: Welding knowledge test given; hands-on evaluation of skill and blueprint reading ability.

Contestants: Teams of 3

Each school will need to acquire the following materials to build the project.
Nothing can be pre-fabricated by a manufacturer.
Procedures for building the project.

1. Only the three students participating in the competition are to work on the project.
2. Students should complete a portfolio of their planning and production of the project with photos of work along the way.
3. The finished project is to be brought to the location of the Regional Welding Competition. 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.
4. The projects will be graded based on their accuracy and quality in relation to the blueprints.
5. The portfolio will be used to validate the process and work completed in the project.
6. Each team will take a written or on-line assessment as part of the interview process. Schools will be able to keep the projects.

At the regional contest you will need to:

1. Provide at least 3 photos in your portfolio
    a. Initial markups of how you will cut it.
    b. Materials once cut into proper dimensions. Include waste in your photo.
    c. Be ready to explain and discuss the process in manufacturing your cart.

Agenda for the day of the contest:

Each team will be given a space to place their cart along with a portfolio folder with the following items:
Cover sheet with a blank to write the contestant number (The number will be provided the day of the contest.)

1. The team will take the test as a team.
2. While the team is taking the test, the judges will review each project, inspect welds for quality and consistency with the marked plans and take appropriate measurements.

After the tests, the teams will return to their cart for the interview/demonstration portion of the competition.

1. Be ready to explain and discuss the process in manufacturing your cart
2. The judge will then inspect the assembled cart to insure it is level, workability, and craftsmanship.

Scoring will be:
Written test: 100 points
Portfolio folder: 100 points
Welds and measurements: 200 points
Interview/Presentation: 100 points
Assembly inspection: 200 points
Craftsmanship/Quality 100 points