SkillsUSA Welding Sculpture Virtual Project

Scope of the Contest

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

Knowledge Performance

The contest will include a **Resume**, **Digital Notebook**, **Video presentation**, and **Zoom interview**. The video demonstration should follow the same outline as the Notebook. *See Technical Standards for specific requirements

See SkillsUSA Virtual Technical Standards for competencies measured.

Contest Information (All items must be received by March 26)

• PDF Resume

• Upload one file with all contestant's one-page resume and include the digital links to Portfolio and Zoom Recording.

Digital Notebook/Written Submission

• Follow the Technical Standards Guideline for requirements of the notebook. *Note, contestants will submit a digital version rather than a physical notebook.

Video of Demonstrated Procedures

• Through a recorded Zoom session, contestant will present their Welding Sculpture making sure to include the process to create the sculpture, the inspiration, materials used, and workmanship/techniques.

*Ensure lighting, audio and video are high quality

Scoring Information

The following pre-submission items will be judged by industry professionals prior to virtual in-person Zoom session

- 1. Resume with embedded links to digital notebook and Zoom/Teams video recoding
- 2. Written submission for clarity, conciseness, grammar, punctuation, and spelling
- 3. Welding Sculpture presentation

Zoom Interview/Role Play

You will receive a specified date/time to participate in a virtual interview/role play via Zoom with industry professionals. You should be dressed in your SkillsUSA attire for this session.

*During your Zoom Session, you will be asked follow-up questions regarding your Welding Sculpture/Process/Design.

Welding Sculpture (Virtual)



PURPOSE

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

First, download and review the General Regulations at: <u>http://updates.skillsusa.org</u>.

ELIGIBILITY

Open to active SkillsUSA members enrolled in career and technical programs with welding or metal trades as the occupational objective.

CLOTHING REQUIREMENTS Class E: Contest specific — Business Casual

- Official SkillsUSA white polo shirt.
- Black dress slacks (accompanied by black dress socks or black or skin-tone seamless hose) or black dress skirt (knee-length, accompanied by black or skin-tone seamless hose).
- Black leather closed-toe dress shoes.

Alternative: Official SkillsUSA red blazer with white shirt may be worn instead of SkillsUSA white polo.

Contest Clothing Notes (Apply ONLY to Virtual Competitions):

- Official SkillsUSA Competition Clothing recommended but NOT required.
- Contestant clothing options include the following:
 - Official Competition Clothing.
 - Trade Appropriate Clothing.
 - o Professional Dress.
 - Business Casual.
- Clothing must meet industry safety standards.
- No identification of the contestant, school or state is allowed on clothing.

- No offensive, vulgar or inappropriate images or text are allowed on contestants clothing.
- No shorts or sleeveless shirts are allowed.
- Skirts must be at least knee-length.
- Proper Personal Protective Equipment (PPE) must be worn by contestant to meet all state, local and school requirements due to COVID-19.
- Scoring deductions may only be given and/or disqualification of contestant if clothing safety standards are not met.

These regulations refer to clothing items that are pictured and described at: <u>www.skillsusastore.org</u>. If you have questions about clothing or other logo items, call 1-888-501-2183.

EQUIPMENT AND MATERIALS

Supplied by the contestant:

- 1. Computer with high-speed internet capability and camera to use applications such as Zoom, Teams, etc. The minimum recommended internet bandwidth speeds for joining Zoom meetings, accessing ondemand curriculum and other online operations is 2.0 Mbps up and down. You can test your current internet speeds by following this link: <u>www.speedtest.net</u>. Allow the page to load and click on GO.
- A secondary camera(s) may be required to provide judges with the ability to view contestants from different angles. Additional camera requirements will be located on the SkillsUSA website at_ http://updates.skillsusa.org.
- 3. A contest Proctor will be required to be on site to assist judges. A local industry expert is preferred to serve as the Proctor and shall not be an individual that has been involved with the training of the contestant(s). The Proctor will serve as the onsite "hands and eyes" for the judges. Proctor will follow instructions from the judges for safety and operations related to the competition. Proctor may be asked by judges to perform several tasks such as operating a portable camera to show specific components or steps, measure parts, or any task that will provide judges with information needed to assist in accurate scoring of the contestant's work or

presentation. However, the Proctor shall not serve as a judge nor have any influence on contestant scores.

- 4. The contestant's instructor or advisor shall be on site to observe all competition activities to ensure a safe and healthy competition experience for all participants. That instructor or advisor will not be allowed to interact or interfere with the competitor unless a safety issue arises that requires interaction. Any other support or interaction between the contestant and the instructor/advisor will result in disqualification
- 5. All competitors must create a one-page résumé and submit an electronic copy to the technical committee chair at least seven (7) days in advance of the competition. Failure to do so will result in a 10-point penalty. Instructions for submission of the electronic résumé copy will be provided on the SkillsUSA website at_ http://updates.skillsusa.org.
- 6. Student-designed and -produced sculpture
- 7. Notebook to serve as professional portfolio (see description below)
- 8. All necessary information for the judges and technical committee
- 9. One 4-foot table

SCOPE OF THE CONTEST

The contest consists of three parts:

- 1. Evaluation of the sculpture
- 2. Notebook
- 3. Interview (All contestants will be asked the same questions, determined by the judges, before the start of the contest.)

Knowledge Performance

There will be a skill-related written test to evaluate student knowledge of basic welding and cutting processes. General questions about GMAW, GTAW, SMAW, PAC and OFC will be included on this test.

Skill Performance

The contest is designed to assess the ability of the competitor to design and produce a sculpture of that design, as well as answer questions in a brief interview related to all aspects of his or her creation of the design.

Contest Guidelines

Note: No modifications may be made to sculptures after regional/state contests, except polishing and clear coat.

Sculpture Design and Workmanship

- 1. Materials used must be ferrous or nonferrous metals. The sculpture must be an original and creative work of the student.
- 2. Sculptures shall be welded, brazed, or soldered, depending on the material used. No mechanical fasteners or adhesives are permitted.
- 3. Projects are to be left unpainted, including primers and other coatings. (Exception: sculptures may be clear coated.) Naturally achieved patinas shall be limited to air, water or heat, or any combination thereof. (No chemically enhanced finishes are permitted.)
- 4. All copyright laws must be followed in the creation of the design.
- The sculpture must be one continual piece, not multiple pieces unconnected. Movement is allowed but not required. Moving parts are permitted provided they do not affect the size parameters or integrity of the piece, or create a safety hazard.
- 6. The sculpture cannot exceed the maximum size of 18" tall x 12" wide x 18" long and cannot exceed a weight of 100 lbs. At orientation, students will place a box with said dimensions over their sculpture so that judges may verify the sculpture meets the size requirement. Sculptures will also be weighed. (A severe point penalty will be taken for oversize or overweight sculptures.)
- 7. No additional appurtenances can be used (mirrors, stands, etc.). The sculpture shall stand alone. No presentation pieces are permitted.

Notebook

1. A three-ring binder must be placed with the sculpture prior to judging. It must contain pictures and supporting evidence (i.e., receipts). It must include a brief description

of the project and processes used to develop the sculpture.

- 2. The first page of the notebook must be a tabbed table of contents. The notebook must include a letter certifying that the sculpture was designed and constructed by the student. The letter must contain an itemized list of all expenses. The letter must identify the school, city, state and local advisor. The letter must identify the student to be interviewed, division (high school or college/postsecondary), and the letter must be signed by the school administrator.
- 3. Any welds that are hidden or ground must be documented through photographs with captions in the notebook.
- 4. A written statement from a school administrator must be submitted to the technical committee stating that the sculpture is the same one used throughout the SkillsUSA at regional and state competitions.
- 5. An electronic copy of the notebook must be provided at orientation on a USB drive; USB drives will be returned to students during the contest.

Interview

The student will participate in a three- to fiveminute interview. Questions from the judges will be related (but not limited) to sculpture, creation, inspiration, materials, processes and workmanship.

Items Evaluated Possible Points Sculpture (450 points)

A.	Metal Working (Fitting and	
	Techniques)	100
В.	Welding (100 points total)	
	• Fit-up	25
	 Function of welds 	25
	• Amount of welds	25
	• Quality of welds	25
C.	Cutting (50 points total)	
	• Function of cuts	25
	Quality of cuts	25
	Note: No extra credit or deductions for	
	CNC cutting	

- D. Design/Creativity (200 points total)• Level of difficulty• Creative use material/process• Creativity50• Creativity50
 - Original Design
 50

Notebook (2"-3" tabbed binder) (300 points total)

Note: Does *not* need to be SkillsUSA binder

A.	Tabbed table of contents	25							
	<i>Note:</i> Must be first page								
В.	Verification letter (125 points total)								
D.	<i>Note:</i> All information must be included i	n							
	one letter.	11							
	1. School letterhead: letter signed by								
	school administrator	25							
	2. Verification: student constructed	25							
		25							
	sculpture	25							
	3. Itemized list of expenses with	~-							
	receipts	25							
	4. ID school, city, state, advisor	25							
	5. List of approximate time in each								
	process	25							
	Note: actual receipts, photocopies								
	of receipts, invoice or proof of								
	donated materials required for								
	expenses.								
C.	Photographs with captions								
	(minimum 10)	50							
	<i>Note 1:</i> Photos must include student,								
	who must be identifiable working on								
	his or her sculpture throughout various								
	stages of construction; captions must								
	depict the process demonstrated								
	<i>Note 2:</i> If welds are ground or removed,								
	photo documentation of original welds								
	must be provided								
D.	Photographs: regional and								
υ.	state contests	25							
	(Student with sculpture, medal/	<u> </u>							
	certificate and state director to verify								
	same sculpture used for all contests)								
E.	Drawings (50 points total)								
с.		25							
	 Concept drawing(s) Duration of the second seco	25							
	2. Drawings — approximate	25							
-	dimensions	25							
F.	Supporting documents	50							
	(Examples: additional photos of process,								
	design, cutting, welding, forming;								
	explanation of creative use of process, et	c.)							

Interview [200 points total]

A. Greeting and Closing	20
B. Eye Contact	10
C. Knowledge of Project	50
D. Complete Answers	20
E. Level of Detail	25
F. Professionalism	50
G. Employability	25

Written Test [50 points total] 50

Penalties

To	1,000	
F.	Clothing Penalty	-10
E.	Résumé Penalty	-10
D.	Workmanship: copyright infraction	-50
C.	Workmanship: paint/finish	-50
В.	Workmanship: exceeds 100 lbs.	-100
A.	Workmanship: exceeds size limits	-100

Total Possible Points



Official SkillsUSA Competition Clothing recommended but <u>NOT</u> required.

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- Skirts must be at least knee-length

Proper Personal Protective Equipment (PPE) must be worn by contestant to meet all state, local and school requirements due to COVID-19.

Welding Sculpture - Secondary

	Place																			
	Score	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Items Evaluated - Possible Points	Contestant #																			
Sculpture: Design	180																			
Sculpture: Workmanship	180																			
Presentation:Introduction, Name, Title, Elements Of Notebook	67																			
Presentation: - Processes, Workmanship, Detail, Closing	68																			
Presentation: -Verbal Techniques, Poise, Self Confidence, Inspiration for project design	68																			
Questions & Answers: Ability to Answer Questions	45																			
Notebook: -Verification Letter	45																			
Notebook: -Photos	45																			1
Notebook: -Material Receipts	45																			
Notebook:- Drawing, Drafts, & Finals	90																			
Notebook: _Other Supporting Documents	67																			
Presentation Time, (Under 3 over 5 Min., 25 Pts/30 Sec)	0																			
Adherence To Guidelines, (0 -50 Pts Minus)	0																			1
Resume Penalty 0 or -50 Pts (Only)	0																			
Clothing Penality (0 To Minus 50 Deducted	0																			
Professional Dev. Prog. WrittenTest	100																			

Missouri SkillsUSA Championships VINYL SIGN MAKING RATING SHEET Demonstration Contest

Welding Sculpture- Postsecondary

	Place														
	Score	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Items Evaluated - Possible Points	Contestant #														
Sculpture: Design	180														
Sculpture: Workmanship	180														
Presentation:Introduction, Name,Title, Elements Of Notebook	67														
Presentation: - Processes, Workmanship, Detail, Closing	68														
Presentation: -Verbal Techniques, Poise, Self Confidence, Inspiration for project design	68														
Questions & Answers: Ability to Answer Questions	45														
Notebook: -Verification Letter	45														
Notebook: -Photos	45														
Notebook: -Material Receipts	45														
Notebook:- Drawing, Drafts, & Finals	90														
Notebook: _Other Supporting Documents	67														
Presentation Time, (Under 3 over 5 Min., 25 Pts/30 Sec)	0														
Adherence To Guidelines, (0 -50 Pts Minus)	0														
Resume Penalty 0 or -50 Pts (Only)	0														
Clothing Penality (0 To Minus 50 Deducted	0														