

Welding Sculpture

CHAIR: Shonda Fast, The Bradbury Co., Inc.

CONTEST DATE: April 29, 2020

CONTEST LOCATION: Hutchinson Fairgrounds: Domestic Arts Building

CONTEST TIME: 8:00 am

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.

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

CLOTHING REQUIREMENT: Unless the contest chair says otherwise, students are required to wear the Official SkillsUSA Kansas T-shirt and blue jeans (no tears, holes, or bagginess) clean and neat with appropriate shoes for contest or Official SkillsUSA white polo shirt attire.

Official SkillsUSA Kansas T-shirt attire



Official SkillsUSA white polo attire



CONTEST UPDATES:

NOTE: Welding Sculpture Projects maximum weight is 100 lbs.

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

SCOPE OF THE CONTEST

The contest consists of two parts:

1. Evaluation of the sculpture
2. Oral presentation and questions - and answers session. All contestants will be asked the same questions, determined by the judges, before the start of the contest

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.
5. 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.
7. 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.)
8. 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.

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3. Any welds that are hidden or ground must be documented through photographs with captions in the notebook.

Interview

The student will participate in a three- to five minute 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 (100 points total)
 - Fitting and Techniques 100
- B. Welding (100 points total)
 - Fit-up 25
 - Function of welds 25
 - Number of welds 25
 - Quality of welds 25
- C. Cutting (50 points total)
 - Function of cuts 25
 - Quality of cuts 25
 - i. Note: No extra credit or deductions for CNC cutting
- D. Design Creativity (200 points total)
 - Level of difficulty 50
 - Creative use material/process 50
 - Creativity 50
 - 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 points total)
 - Must be first page
- B. Verification letter (125 points total)

Note: All information must be included in one letter.

 - School letterhead: letter signed by school administrator 25
 - Verification: student constructed sculpture 25
 - Itemized list of expenses with receipts 25
 - ID school, city, state, and advisor 25
 - Includes advisor, administrator or teacher's signature
 - 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

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Note 1: 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

Note 2: If welds are ground or removed, photo documentation of original welds must be provided.

- D. Drawings (50 points total)
 - Concept drawing(s) 25
 - Drawings — approximate dimensions 25
- E. Supporting documents (50 points total)
 - (Examples: additional photos of process, design, cutting, welding, forming; explanation of creative use of process, etc.)

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 Tests (100 points total)

- A. Weld Knowledge/Skills Test 50
- B. SkillsUSA State Professional Development Test 50
 - **NEW THIS YEAR**

Penalties

- A. Workmanship
 - Exceeds size limits -100
 - Exceeds 100 lbs -100
 - Paint/finish -50
 - Copyright infraction – 50
- B. Resume
 - Not included -10
- C. Clothing
 - Inappropriate dress -10

POSSIBLE POINTS: 1,050

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Photographs are required from State contest (Student with sculpture, medal/certificate and state director to verify same sculpture used for all contests) if student advances to Nationals.

Contest Schedule:

8:00 AM	Check-in
8:30 AM	Introduction / Orientation
9:00 AM	Written Tests
10:00 AM	Judges Preliminary work/review
11:00 AM	Presentation / Interviews start (Scheduled every 20 minutes)
12:00 Noon	Lunch
3:30 PM	Wrap Up
4:00 PM	Contest Debrief

* Schedule subject to change if tests or interviews progress quickly*