



Iowa SkillsUSA

skillsusaiowa@gmail.com

2020 Welding Sculpture Contest

Friday, April 24, 2020

CLOTHING REQUIREMENT

At the State contest, competitors will not be required to wear official SkillsUSA clothing this year, although this may change in the future. However, the presentation is a professional presentation, therefore contestants should dress professionally and may be deducted points if not dressed appropriately. SkillsUSA polo that competitors receive at registration is acceptable and encouraged to be worn for the presentation.

ELIGIBILITY

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

EQUIPMENT AND MATERIALS

1. Supplied by the technical committee:
 - a. All necessary information for the judges and technical committee
 - b. One 4-foot table
2. Supplied by the contestant:
 - a. All competitors must create a one-page résumé and submit the résumé at the contest orientation.
 - b. Student-designed and produced sculpture

SCOPE OF THE CONTEST

The contest consists of three parts:

1. Evaluation of the sculpture
2. Notebook
2. 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

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 may be welded, brazed or soldered, depending on the material used.
3. Projects are to be left unpainted, including primers and other coatings. (Exception: sculptures may be clear coated.)
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.
6. The sculpture cannot exceed the maximum size of 18" height x 12" width x 18" length and cannot exceed a weight of 150 lbs.

Notebook

1. A notebook must be placed with the sculpture prior to judging. It must contain pictures and supporting evidence (e.g., 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 the 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 local administrator.
3. Any welds that are hidden or ground must be documented through photographs with captions in the notebook.
4. A photograph of the student with his or her sculpture at regional and state competitions must be provided to ensure the same sculpture has been used throughout SkillsUSA contests.

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)

Metal Working (Fitting and Techniques)	100
Welding (100 points total)	
Fit-up	25
Function of welds	25
Amount of welds	25
Quality of welds	25
Cutting (50 points total)	
Function of cuts	25
Quality of cuts	25
<i>Note: No extra credit or deductions for CNC cutting</i>	
Design/Creativity (200 points total)	
Level of difficulty	50
Creative use material/process	50
Creativity	100

Notebook (2–3" tabbed binder) (400 points total)

Table of contents	25
Verification letter (150 points total)	
School letterhead	25
Verification student made	25
Itemized list of expenses	25
ID school, city, state, advisor	25
Approximate time in each process	25
Letter signed by administrator	25
Photographs with captions (minimum 5)	100
<i>Note: If welds are ground or removed, photo documentation of original welds must be provided.</i>	
Receipts for materials	50
Drawings (50 points total)	
Concept drawing(s)	25
Drawings — approximate dimensions	25
Supporting documents	50
(e.g., additional photos of process, design, cutting, welding, forming, explanation of creative use of process, etc.)	

Interview (100 points total)

Greeting and closing	25
Knowledge of project	25
Self confidence	25
Q&A (sample questions provided)	25

Written Test (50 points total) 50**Penalties**

Workmanship: exceeds size limits	-50
Workmanship: exceeds 150 lbs.	-50
Workmanship: paint/finish	-50
Résumé	-10
Clothing	-10

Total Possible Points 1,000