

WELDING SCULPTURE NYS



PURPOSE

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

ELIGIBILITY

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

CLOTHING REQUIREMENT

NYS Official attire for men: Official red blazer, NYS Black Jacket, the older red national windbreaker or older red sweater and the Black Carhartt Jacket from Nationals. Black dress slacks; white dress shirt; plain black tie with no pattern or a SkillsUSA black tie. Black socks and black shoes.

NYS Official attire for women: Official red blazer, NYS Black Jacket, the older red national windbreaker or older red sweater and the Black Carhartt Jacket from Nationals. Black dress slacks or skirt with businesslike white, collarless blouse or white blouse with small, plain collar that may not extend on to the lapels of the blazer; black sheer or skin-tone hose and black shoes, that are not backless or open toe.

Note: Contestants must wear their contest clothing to the contest orientation meeting. Also bring #2 pencil, resume, and safety assurance form.

EQUIPMENT AND MATERIALS:

1. Supplied by the NY chair/committee:
 - a. All necessary information for the judges and technical committee.
 - b. One table.
2. Supplied by the contestant:
 - a) All competitors must create a one-page résumé using a word processor and submit the résumé at the contest orientation. Failure to do so will result in

a 10-point penalty.

b) Student designed and produced sculpture

3. To preserve the sculpture, it may be coated with clear coat paint.
4. The same sculpture will be used throughout the regional, state and national competitions without alterations.

Note: Your contest may also require a hard copy of your résumé as part of the actual contest. Check the Contest Guidelines and/or the updates page on the NYS SkillsUSA Web site:

<http://www.nysskillsusa.org/>

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 question, determined by the judges before the start of the contest.
- **Contestants bring their SkillsUSA notebooks and sculpture to the contest meeting on Wednesday night for contest set up.**
 - **Skills and 2welding knowledge test will be given at orientation meeting**

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 non-ferrous 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 on continual piece, not multiple pieces unconnected.
- 6. The sculpture cannot exceed the maximum size of 18” tall x 12” wide 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 (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 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 post-secondary), 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/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 3 to 5-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 & 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)	

Note: No extra credit or deductions for CNC cutting

Function of Cuts	25
Quality of Cuts	25
Design/Creativity (200 points total)	
Level of Difficulty	50
Creative Use Material/Process	50
Creativity	100

Notebook (2”-3” tabbed binder) [400 points total]

A. Table of Contents	25
B. Verification Letter (150 points total)	
School letterhead	25
Verification student made	25
Itemized list of expenses	25
ID school, City, State, Advisor	25
Approx time in each process	25
Letter signed by administrator	25
C. Photographs w/Captions (minimum 5) 50	
<i>Note: If welds are ground or removed, photo documentation of original welds must be provided</i>	
Photographs: Regional & State Contests	50
(student w/ sculpture to verify same sculpture used for all contests)	
D. Photographs Regional and State	50
E. Receipts for Materials	50
F. Drawings (50 points total)	
Concept drawing(s)	25
Drawings- approx. dimensions	25
G. Supporting documents	50
<i>Ex) Additional photos of process, design, cutting, welding, forming; explanation of creative use of process, etc.</i>	

Interview [100 points total]

Greeting & 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 150lbs	-50
Workmanship: paint/ finish	-50
Résumé Penalty	-10
Clothing Penalty	-10

Total Possible Points 1,000