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 or metal trades.

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

CLOTHING REQUIREMENTS
NYS Business Casual
- Button-up collared, white dress shirt (accompanied by a plain, solid black tie), white blouse (collarless or small-collared) or white turtleneck, with any collar not to extend into the lapel area of the blazer sweater windbreaker or any jacket.
- 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 dress shoes - no open back or open toed shoes

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

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.
   Note: Your resume may be judged as part of your contest” Check the Contest Guidelines and/or the updates page on the NYS SkillsUSA Web site: http://www.nysskillsusa.org
   b. Student-designed and -produced sculpture
   c. Notebook to serve as professional portfolio (see description below)

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

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.

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. 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. 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.

4. 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.

Notebooks must be picked up between 2 and 3 pm on Thursday. SkillsUSA NY will not be responsible for any notebook left behind.

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 (Fitting and Techniques) 100
   • Fit-up 25
   • Function of welds 25
   • Number of welds 25
   • Quality of welds 25

B. Welding (100 points total)
   • Function of welds 25
   • Number of welds 25
   • Quality of welds 25
   *Note: No extra credit or deductions for CNC cutting

C. Cutting (50 points total)
   • Function of cuts 25
   • Quality of cuts 25

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
   *Note: Must be first page

B. Verification letter (125 points total)
   *Note: All information must be included in one letter.
   1. School letterhead: letter signed by school administrator 25
   2. Verification: student constructed sculpture 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)
   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. Photographs: regional and state contests (Student with sculpture, medal/certificate and state director to verify same sculpture used for all contests)

E. Drawings (50 points total)
   1. Concept drawing(s) 25
   2. Drawings — approximate dimensions 25

F. Supporting documents 50
   (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 Test [50 points total] 50

Penalties

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

Total Possible Points 1,000