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: http://updates.skillsusa.org.

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.
  - 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: www.skillsusastore.org. 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 on-demand curriculum and other online operations is 2.0 Mbps up and down. You can test your current internet speeds by following this link: www.speedtest.net. Allow the page to load and click on GO.
2. 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.
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. 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 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

B. Welding (100 points total)  
   - Fit-up  
   - Function of welds  
   - Amount of welds  
   - Quality of welds  
   25  
   25  
   25  
   25

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

**Design/Creativity (200 points total)**

- Level of difficulty  
- Creative use material/process  
- Creativity  
- Original Design  
   50  
   50  
   50  
   50

**Notes:**

- Does not need to be SkillsUSA binder

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**Notebook (2"–3" tabbed binder) (300 points total)**

A. Tabbed table of contents  
   **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  
   2. Verification: student constructed sculpture  
   3. Itemized list of expenses with receipts  
   4. ID school, city, state, advisor  
   5. List of approximate time in each process  
      **Note:** actual receipts, photocopies of receipts, invoice or proof of donated materials required for expenses.

C. Photographs with captions (minimum 10)  
   **Note:** 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

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)  
   2. Drawings — approximate dimensions  
   25  
   25

F. Supporting documents  
   (Examples: additional photos of process, design, cutting, welding, forming; explanation of creative use of process, etc.)  
   50
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