



Metals and Jewelry Design Project (STATE ONLY)



PURPOSE (STATE ONLY CONTEST)

To evaluate a competitor's creative and technical skills and to recognize outstanding students for excellence and professionalism in the Metals and Design field.

ELIGIBILITY (STATE ONLY CONTEST)

Open to active SkillsUSA members enrolled in career and technical programs.

Other Contests

This challenge does not conflict with other SkillsUSA Washington State Only or SkillsUSA National contest offerings or events. Students may enter this challenge as well as other design-related contests.

Clothing Requirements (STATE ONLY CONTEST)

Class I: Competition Specific — Metals and Jewelry Design/Fabrication

- Official SkillsUSA khaki long-sleeve work shirt (100% cotton as per OSHA regulations)
- Khaki pants (100% cotton as per OSHA regulations)
- Black, brown, or tan work shoes

Note: Safety glasses must have side shields or goggles. (Prescription safety glasses may be used only if they are equipped with side shields. If not, they must be covered with goggles.)

These regulations refer to SkillsUSA Championships Clothing Classifications that are pictured and described at skillsusastore.org. If you have questions about competition uniforms, call the SkillsUSA Store at 888-501-2183.

Materials (STATE ONLY CONTEST)

Supplied by the competitor:

- A. The competitor designed and produced Metals/Jewelry Project.
- B. Official SkillsUSA three-ring binder documenting the project and processes.
 - a. All competitors must also submit a digital copy of their binder's contents saved as a PDF file. The purpose of the "Online Submission Requirements" is for preconference evaluation. Failure to submit a digital copy of the binder that can be opened and meets the required format may result in a loss of points. See "Online Submission Requirements" below for guidelines
 - b. Digital copy (PDF) of binder contents saved on a USB flash drive turned in at orientation along with the physical binder.
- C. All competitors must create and submit online a one-page single sided resume. See "Online Submission Requirements" below for guidelines.

Note: All national competitors must also check for competition-specific updates and/or competitor preparation instructions on the SkillsUSA website at updates.skillsusa.org.

PROHIBITED DEVICES: Cellphones, electronic watches and/or other electronic devices not approved by a competition's national technical committee are NOT allowed in the competition area. Please follow the guidelines in each technical standard for approved exceptions. Technical committee members may also approve exceptions onsite during the SkillsUSA Championships if deemed appropriate.

Penalties for Prohibited Devices: If a competitor's electronic device makes noise or if the competitor is seen using it at any time during the competition, an official report will be documented for review by the Director of the SkillsUSA Championships. If confirmed that the competitor used the device in a manner which compromised the integrity of the competition, the competitor's scores may be removed.

Online Submission Requirements (STATE ONLY CONTEST)

All SkillsUSA national competitors must submit their one-page single sided resume online. The deadline and link for online submissions will be published on updates.skillsusa.org.

Failure to submit any of the required document(s) listed below by the established deadline will result in a 10-point penalty.

1. One-page single sided resume
3. A digital copy of their binder's contents saved as a single PDF file. The online submission of scanned pages must be in the same order as the physical binder presented at the competition orientation.

Your submission must be saved as PDF file type using the file name format of “Your Last Name_Your First Name_Resume.” For example, “Amanda Smith” would save the individual PDF submissions file as:

- Smith_Amanda_Resume
- Smith_Amanda_Binder

Scope Of Competition (STATE ONLY CONTEST)

The competition evaluates the ability of the competitor to design and produce a Metals and/or Jewelry Design Project, including a Binder that illustrates the design and creation process of the project. The skill performance includes an interview for competitors to answer questions related to all aspects of their creation of the design.

KNOWLEDGE PERFORMANCE

There will be no skill-related written test

SKILL PERFORMANCE

The competition consists of three parts:

1. Evaluation of the sculpture
2. Binder documentation
3. Interview

COMPETITION GUIDELINES

1. Competition orientation
 - a. Competitors will be assigned appointment times. Appointments may be randomly preassigned by the technical committee or drawn during the competition orientation.
 - b. A digital copy (PDF) of the binder contents must be submitted on a USB drive; USB drives will be returned to students after the competition.
 - c. A penalty of 50 points will be deducted for a late submission.
 - d. Projects will be measured (competitors will place a box with said dimensions over their sculpture so that judges may verify the project meets the size requirement).
 - e. Competitors must bring the project and physical binder for setup as directed.

2. Binder Specifications

- a. The documentation must be submitted onsite in an official SkillsUSA three-ring binder. The binder must contain no more than 60 pages. Note: A sheet of paper has two sides. Each side is considered one page. Therefore, a single sheet of unfolded paper is two pages.
 - i. A penalty of five (5) points will be assessed for each page beyond the limit.
 - ii. If sheet protectors are used, two sheets of paper can be placed back-to-back, creating a front and back page. This would be considered two pages.
 - iii. Unused sheet protectors will count as pages, as will any additional documents (such as extra resumes) placed in the binder.
 - iv. Any pages contained in a pocket, folded page, or similar features will be counted as additional pages and will be subject to penalty.
- b. Binders are not considered presentation pieces and are required to be placed with the project prior to judging.
- c. The following binder components must be clearly labeled, tabbed, and in the stated order.
 - i. Table of contents
 1. Must be the first page.
 - ii. A verification letter, on school letterhead, signed by an administrator, that:
 1. Identifies the school, city, state and local advisor.
 2. Indicates the competitor and the division (high school or college/postsecondary).
 3. Verifies the project was designed and constructed by the competitor, and the same sculpture was used throughout the local SkillsUSA competitions that lead to the State competition.
 4. Lists approximate time in each process.
 5. Includes an itemized list of expenses with receipts, photocopies of receipts, invoice or proof of donated materials required for expenses.
 6. Signed by a school administrator.
 - iii. Photographs with captions (minimum 10)
 1. Photos must include the competitor, who must be identifiable working on their project throughout various stages of construction; captions must depict the process demonstrated.
 - iv. Drawings
 1. Concept Drawings

2. Drawings with approximate dimensions
- v. Supporting Documents
 1. Examples: additional photos of process, explanation of creative use of process, etc.
3. Interview Specifications
 - a. All competitors will be asked the same questions regarding the project itself, design process, and the creation process.
4. Project Specifications
 - a. The project cannot exceed the maximum size of 18" tall by 12" wide by 18" long.
 - i. A penalty of 100 points will be deducted if the sculpture exceeds the size limits.
 - b. The project should use a variety (3 or more) of Metalsmithing techniques, including, wire wrapping, sawing/piercing, forming, soldering, drilling, forging, casting, fusing, stamping, doming, texturing, polishing, etching, oxidizing, and/or stone setting. The sculpture should be representative of the competitors skills and ability.
 - c. The sculpture must be the original and creative work of the competitor.
 - i. All copyright laws must be followed in the creation of the design.
 - ii. A penalty of 50 points will be deducted for copyright violation
 - d. Presentation pieces are permitted but not required.
 - e. No modifications may be made to sculptures after regional competitions.
 - f. The following project components will be evaluated:
 - i. Technical Execution/ Fabrication
 1. Structural integrity
 2. Secure joints
 3. Materials chosen
 - ii. Finish
 1. Consistent surface finish
 2. Consistent texture
 3. Clean lines and edges
 4. Intentional patinas
 - iii. Creativity and Design

1. Level of difficulty
 2. Creative use of material/process
 3. Creativity
 4. Original Design
- iv. Functionality (If Applicable)
1. Project is comfortable and wearable
 2. Closures/fastenings are functional.

STANDARDS AND COMPETENCIES

MJD 1.0 - Generate and conceptualize artist ideas for work and projects.

- 1.1 Apply relevant elements and principles of art/design into the designing process.
- 1.2 Formulate multiple ideas and approaches for a single project before starting.
- 1.3 Explore and investigate multiple ideas and references without copying other artist's ideas.

MJP 2.0 - Maintain a project portfolio to document knowledge, skills and experience in the Metalsmithing field.

- 2.1 Document work through photography, drawings, etc.
- 32.2 Demonstrate proper organization of digital and physical files.
- 2.3 Demonstrate reflective and detailed notes of techniques and processes.
- 2.4 Demonstrate safe handling and storage of documents and artifacts.
- 2.5 Evidence of linking the process to the product.
- 2.6 Break down project and task with timelines.
- 2.7 Anticipate and plan for possible obstacles and setbacks.

MJD 3.0 - Create three-dimensional Metals and Jewelry Design projects using various materials to demonstrate readiness in a career in the Metalsmithing field.

- 3.1 Produce completed 3D jewelry and metals projects that show technical skill.
- 3.2 Safely executing cold and hot joining/shaping processes.
- 3.3 Refining 3D works for structural integrity and aesthetic quality.
- 3.4 Demonstrate proper use of equipment and tools for the making process.

MJD 4.0 - Answer questions and share ideas revolving around a visual art project.

- 4.1 Thoroughly and clearly explain artistic choices.
- 4.2 Use vocabulary appropriately.
- 4.3 Use appropriate body language.
- 4.4 Check for understanding when articulating complex issues.
- 4.5 Practice active listening skills.

MJD 5.0 - Project a professional self-image through attire and grooming.

- 11.1. Demonstrate a professional appearance in dress, good grooming, and personal presentation.
- 11.2. Display clothing that meets national standards requirement for competition.
- 11.3. Demonstrate good grooming in personal hygiene.
- 11.4. Wear clothing that fits well. 11.5. Present a wrinkle-free appearance.

MJD 6.0 - SkillsUSA Framework

The SkillsUSA Framework is used to pinpoint the Essential Elements found in Personal Skills, Workplace Skills, and Technical Skills Grounded in Academics. Students will be expected to display or explain how they used some of these Essential Elements. For more, visit:

www.skillsusa.org/who-we-are/skillsusa-framework/.

COMMITTEE IDENTIFIED ACADEMIC SKILLS

The technical committee has identified that the following academic skills are embedded in this competition.

Math Skills

- Use fractions to solve practical problems.
- Use proportions and ratios to solve practical problems.
- Apply transformations (rotate or turn, reflect or flip, translate or slide, and dilate or scale) to geometric figures.
- Construct three-dimensional models.
- Solve problems involving symmetry and transformation.
- Demonstrate measuring skills.

Science Skills

- Use knowledge of physical properties (shape, density, solubility, odor, melting point, boiling point, color).
- Describe and recognize solids, liquids and gasses.

Language Art Skills

- Provide information during oral presentations.
- Provide information in conversations and in group discussions.
- Organize and synthesize information for use in written and oral presentations.

CONNECTIONS TO NATIONAL STANDARDS

State-level academic curriculum specialists identified the following connections to national academic standards

Math Standards

- Geometry
- Measurement
- Problem solving
- Communication

Source: NCTM Principles and Standards for School Mathematics. NCTM Principles and Standards for School Mathematics. For more information, visit: www.nctm.org.

Science Standards

- Understands the structure and properties of matter.

Language Arts Standards

- •Students adjust their use of spoken, written and visual language (e.g., conventions, style, vocabulary) to communicate effectively with a variety of audiences and for different purposes.
- Students participate as knowledgeable, reflective, creative and critical members of a variety of literacy communities.
- Students use spoken, written and visual language to accomplish their own purposes. (e.g., for learning, enjoyment, persuasion and the exchange of information.)

Source: IRA/NCTE Standards for the English Language Arts. To view the standards, visit: www.ncte.org/standard