



2020 State Contest

MASONRY

SCOPE OF THE COMPETITION:

The contest is defined by industry standards as determined by the SkillsUSA Championships technical committee comprised of the Arizona Masonry Contractors Association, Bon Tool Co., Brick Industry Association, Brick Industry Association SE Region, E/Z Grout Corp., Hanley-Wood LLC, Marshalltown Co., Mason Contractors Association of America, Masonry Institute of Tennessee, National Concrete Masonry Association and SPEC MIX Inc.

Note: Please check the SkillsUSA National website for updated contest information and the SkillsUSA National Technical Standards

- [SkillsUSA Championships Technical Standards](#)
- [Contest Updates](#)

Clothing Requirements

- Class C: Contest Specific — Manufacturing/Construction Khaki Attire
- Official SkillsUSA khaki short-sleeve work shirt and pants
- Black, brown or tan leather work shoes
- Note: Safety glasses must have side shields or goggles (prescription glasses may be used only if they are equipped with side shields)

Each contestant is responsible for bringing the proper PPE to wear while participating in the contest. Safety glasses, hard hats, hearing protection, work boots, and appropriate dress must be worn at all times when in the competition area. Each contestant must turn in a signed SkillsUSA Safety Form to the competition chairman on the day of the competition.

Knowledge Performance

The contest will include a written knowledge exam assessing mastery of the knowledge of brick masonry techniques including but not limited to: safety; identification and usage of hand tools, power tools, measuring tools and equipment; and blueprint reading.

All SkillsUSA California contest projects are subject to change due to any unforeseen facility, staffing or site-related issues. Please use these materials as a reference to prepare students for the potential contest project. SkillsUSA California regional and state contest projects are developed by state technical committee members to align with the national technical standards.



Skill Performance

The contest will include a skills performance demonstration that will assess the ability of the contestant to safely construct a composite brick and block project.

Contest Guidelines

1. Contestants will construct a project or wall system using brick or brick and block, according to project specifications and drawings, within an allotted period of time.
2. The project will include components of the most frequently used details in residential construction. In addition, the assessment will also include vital elements of quality workmanship.

Equipment and Materials

Supplied by the contestant

1. Work Boots
2. Safety glasses or goggles
3. Pencils (sharpened)
4. Brick Trowel
5. 18" x 24" Framing Square
6. Brick Hammer
7. S-Jointer or Barrel Jointer
8. Mason Brush
9. Two 6' Folding Rules (1 Modular, 1 Brick Spacing)
10. Tape Measure (plus extra)
11. Brick Set Chisel
12. Block Set Chisel
13. 1/4" or 3/8" Tuck Pointer
14. 24" Level
15. 48" Level
16. Two Line Twigs
17. Utility Knife
18. Torpedo Level
19. Two Wooden Line Blocks
20. Mason's Line

Supplied by SkillsUSA

Mortar Board and Stand

All SkillsUSA California contest projects are subject to change due to any unforeseen facility, staffing or site-related issues. Please use these materials as a reference to prepare students for the potential contest project. SkillsUSA California regional and state contest projects are developed by state technical committee members to align with the national technical standards.



Hand/ Power Tool Contest Pre-use Inspection Form

Some portable power tools require a more thorough inspection. Check the manufacturer's recommendation for more advanced power tools.

Before using hand tools inspect for the following:

- The outside of the tool is free of grease, oil and accumulated foreign matter
- The tool has no visible cracks in jaws or handle
- Blades or bits are not damaged, cracked, etc.
- Handles are not cracked, damaged or loose from heads of hammers, axes mauls, and other similar tools
- Tips of screwdrivers, chisels or other similar tools show no excessive wear
- Gripping surfaces pliers, wrenches or other similar tools are not worn
- Tools such as chisels and punches do not have mushroomed heads
- Cutting tools such as chisels and axes are sharp
- Tool appears to be in generally good condition

Before using portable power tools inspect for the following:

- The outside of the tool is free of grease, oil and accumulated foreign matter
- Tool power-source shows no damage (a cord, airline, battery, etc.)
- Tool is double insulated and tool housing is not damaged
- If not double insulated the equipped, electrical cord third prong (ground) is intact
- All shields, guards or attachments required by OSHA or manufacturer are present
- Rotating or moving parts of the tool are guarded to prevent physical contact
- The tool is not leaking fluid such as grease, oil, etc.
- Blades or bits are not damaged, cracked, etc.
- The tool appears to be in generally good condition
- Proper PPE is available

All SkillsUSA California contest projects are subject to change due to any unforeseen facility, staffing or site-related issues. Please use these materials as a reference to prepare students for the potential contest project. SkillsUSA California regional and state contest projects are developed by state technical committee members to align with the national technical standards.



SKILLS California Hand/ Power Tool Contest Pre-use Inspection Form

Contestants #: _____

Contestants Signature: _____

Advisors Name: _____

Advisor's Signature: _____

1. The contestant will use this form to document the use inspection of each power and hand tool that will be used for the SkillsUSA Regional and State building trades competitions.

2. Each hand and power tool must be inspected prior to the competition using the stated inspection criteria above or owner's manuals. All tools must receive a pass (P), improvement needed (I), Fail (F) marking. All tools must receive a passing marking to be used in the competition.

3. All marking and measuring tools will receive an NA.

4. Any corrective steps taken must be noted in the notes section next to the item.

a. Examples of corrective actions include cleaning, repairs needed, removed, tagged out of service.

5. Contestant's advisors must also print and sign they have reviewed the tools prior to competition.

6. Forms will be collected at the beginning of the competition.

a. Any contestant/ team that does not submit the form will be required to complete inspection prior to the start of the competition.

7. All contestants will be subject to random tool safety inspections throughout the competition.

P – Pass • I – Improvement Needed • F – Fail Inspection • NA – Not Applicable Item

All SkillsUSA California contest projects are subject to change due to any unforeseen facility, staffing or site-related issues. Please use these materials as a reference to prepare students for the potential contest project. SkillsUSA California regional and state contest projects are developed by state technical committee members to align with the national technical standards.