

## **SkillsUSA Competition Guidelines**

### **Purpose**

To evaluate each competitor's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of cabinetmaking and millwork.

### **Clothing Requirements**

Official SkillsUSA work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles, (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.)

### **Eligibility**

Open to active SkillsUSA members enrolled in vocational programs with entry-level skills at the occupational objective.

### **Safety Requirement**

Both the instructors and the contestants certify by agreeing to enter this contest that the contestant has received instruction and has satisfactorily passed examination on the safe use of the following power equipment that may be used in the contest:

1. Router/Radial
2. Arm Saw
3. Table Saw
4. Jointer
5. Band Saw
6. Drill Press
7. Hand Drill
8. Scroll Saw
9. Cutoff Saw
10. Disc and Belt Sander
11. Boring Machine

They also certify that SkillsUSA, Inc., the technical committee, and judges are released from all responsibility relating to personal injury resulting from the use of the above listed power equipment. Contestants will be removed from competition if proper training has not been provided and/or they are using the equipment in an unsafe manner.

### **Equipment and Materials**

**Supplied by host school:**

- All necessary power tools, equipment and work stations for contestants

**Supplied by Contestant:**

- Cabinetmaking Proof of Training form
- Safety glasses
- Work shoes
- Work clothes
- Pencils
- Calculator
- Utility knife
- Measuring tape
- Biscuit Jointer and biscuits
- Cordless hand drill and extra battery
- 1/16", 1/8", 5/32", 3/16" & 1/4" twist drill bits
- Extension cord (10 feet 12 or 14 gauge recommended)
- Claw hammer
- J roller

**Note:** No additional tools will be permitted.

**Scope of Contest****Knowledge Performance:**

The contest will include a written test.

**Skill Performance:**

The contest consists of work stations which require the building of a small cabinet from the materials and drawings supplied. Contestants will demonstrate their ability to perform jobs or skills selected from the following list of competencies as determined by the SkillsUSA Championships technical committee.

**Contest Guidelines**

1. Read drawings, lay out and cut parts using a table saw, laminating trimmer, hand drilling, utilizing the boring machine and various hand tools are skills that will be assessed. In addition, the parts must be accurately assembled, sanded and adjusted to tolerances specified.
2. Contestants will be given all necessary information by job sheets or prints of articles to be constructed. Contestants will use joinery techniques as specified.

## Evaluation Criteria

The contest may include any or all items listed in the scope of contest.

1. Contestants will complete a written test. (30 minutes – 25 question max)
2. Contestants will be given a print of the item to be created.  
They must have knowledge in the use of the following power equipment.
  - a. Router
  - b. Jointer
  - c. Radial Arm Saw
  - d. Band Saw
  - e. Disc and Belt Sander
  - f. Table Saw
  - g. Drill Press
  - h. Hand tools
3. Contestants will complete 2 projects:
  - a. Small cabinet door
  - b. Small box
4. Contestants will do 3 written projects:
  - a. Router bit Id
  - b. Cabinet Component Id
  - c. Hardware Id
5. Contestants will be judged on:
  - a. Layout and overall measurements
  - b. Machining Operations
  - c. Personal and General Safety
  - d. Finished products – assembly and construction
  - e. Accuracy
  - f. Completed project

## Standards and Competencies

(The competition guidelines will identify the set of standards and competencies students are expected to meet. For example:

### **CM 1.0 - Apply wood veneers and plastic laminates**

- 1.1 Apply adhesives, edge banding and wood edges
- 1.2 Apply laminate to core
- 1.3 Cut plastic to size

### **CM 2.0 - Assemble, fasten, and install components**

### **CM 3.0 - Cut and shape components**

**CM 4.0 - Design and lay out  
CM 5.0 - Finish Surfaces)**