

# CABINETMAKING NYS



## PURPOSE

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

## ELIGIBILITY

Open to active SkillsUSA members enrolled in career programs with that includes cabinetmaking and millwork as the occupational objective.

## CLOTHING REQUIREMENT

White crew neck short-sleeved T-shirt, work pants, safety glasses or goggles, leather or steel-toed work shoes, hearing protector (OSHA approved)

(Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.)

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

## 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
2. Table saw
3. Jointer
4. Band saw
5. Drill press
6. Hand drill
7. Scroll saw
8. Miter/Cutoff sander
9. Disc and belt sander
10. Boring Machine

They also certify that SkillsUSA Inc., New York and the NY chair/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. Contestants must bring the NYS safety sheet to orientation meeting.

## EQUIPMENT AND MATERIALS

1. Supplied by the NY chair/committee:
  - a. Three table saws:
    - one set up with a 60 or 80 tooth combination blade, complete with fence and miter gauge
    - one set up with a stacked dado head cutter, complete with fence and miter gauge.
    - one set up with a combination blade with fence and miter gauge,
  - b. 2 – Sliding Compound Miter Saws
  - c. 2 – Air Compressors with Hoses
  - d. 2 - Pneumatic finish nailers, brad nailers
2. Supplied by the contestant:
  - a. A “glue-up” of a given size – Posted on the Website before the competition
  - b. 20 – 30 Wood “plugs” made in advance and brought to the competition with counter bore to match them.
  - c. Router with a 3/8 round-over bit and a 45 degree chamfering bit
  - d. Saber Saw
  - e. Biscuit Joiner
  - f. Sander/sanding blocks with appropriate sandpaper/discs, etc.
  - g. Electric/Cordless Drill with #8 countersink bits, screw bits, and bit(s) to accommodate wood plugs made at the Home School.
  - h. 2 – Sturdy Saw Horses
  - i. Variety of clamps/hand screws
  - j. 4 Bar clamps – open at least to 24”
  - k. Glue brush
  - l. All appropriate hand tools – Hammers, nail-sets, chisels, block plane, etc.
  - m. All appropriate measuring instruments – Tape, tri-square, etc.
  - n. Work apron
  - o. Pencils and notebook
  - p. Scientific calculator
  - q. Please look for regular update on the NYS SkillsUSA webpage.  
<http://www.nysskillsusa.org/>

**Note:** Your contest may also require a hard copy of your résumé as part of the actual contest. Check the Contest Guidelines and/or the updates page on the NYS SkillsUSA Web site:

<http://www.nysskillsusa.org/>

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

## **SCOPE OF THE CONTEST**

### **Knowledge Performance**

The contest will include a written test.

### **Skill Performance**

The contest consists of workstations that 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 NY Chair/committee.

### **Contest Guidelines**

1. Read drawings, lay out, cut, and shape parts using a table saw, sliding compound miter saw, router, drill, 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 a variety of joinery techniques as specified on drawings.

## **Standards and Competencies**

### **CM 1.0 — Assemble, fasten and install components**

- 2.1 Apply clamping devices
- 2.2 Assemble drawers, panel door and joint
- 2.3 Assemble ends, back, bracing and face frame
- 2.4 Attach molding/trim
- 2.5 Fasten parts with nails, screws and staples
- 2.6 Fasten top to casework
- 2.7 Glue boards edge to edge
- 2.8 Install catches, doors, drawer rail and guides, hinges, pulls and knobs, shelves and track and slide for sliding doors
- 2.9 Reinforce joints with block/dowel

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

- 3.1 Cut butt joint, dado/rabbet
- 3.2 Cut ends, back and interior shelves
- 3.3 Cut face frame, miter joints, molding trim, shelving, biscuit joints
- 3.4 Edge (shape) cabinet top

### **CM 4.0 — Design and lay out**

- 4.1 Determine materials from a blueprint
- 4.2 Sketch shop plans as needed to plan work

### **CM 5.0 — Finish surfaces**

- 5.1 Remove excess glue
- 5.2 Sand surfaces