CABINETMAKING

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.

GENERAL REGULATIONS
SkillsUSA members entering this contest must follow all rules listed below as well as the "General Regulations" of the SkillsUSA North Dakota Championships.

CLOTHING REQUIREMENT
White work pants and white work shirt or other appropriate work clothing; leather work shoes; and safety glasses with side shields or goggles (Prescription glasses can be used only if equipped with side shields; otherwise they must be covered with goggles). For information about purchasing official SkillsUSA work clothes, refer to the separate file called "Clothing Requirements." **NOTE:** No athletic type shoes may be worn by contestants in this event.

ELIGIBILITY
Open to active SkillsUSA members enrolled in programs with cabinetmaking or millwork as the occupational objective.

SAFETY REQUIREMENT
Both the instructors and the contestants certify by entering this contest that the contestant has received instruction and has satisfactorily passed examinations on the safe use of the following power equipment that may be used in the contest:

Band Saw	Drill Press	Router
Planer	Hand Drill	Jig Saw
Power Miter Saw	Jointer	Table Saw
Disc and Belt Sander	Radial Arm Saw	

They also certify that the North Dakota Association of SkillsUSA, the SkillsUSA North Dakota Championships Technical Committee, and state judges are released from all responsibility relating to personal injury resulting from the use of the above listed power equipment. The signature of the advisor on the contestant registration form is also verification that proper instruction has been given. Contestants will be removed from competition if it is found that proper safety training has not been given and/or they are using equipment in an unsafe manner.

EQUIPMENT AND MATERIALS

1. Supplied by the technical committee:
   a. All necessary stationary power tools, equipment and work stations for contestants.
   b. All necessary information and furnishings for judges and technical committee.
   c. All hardware
   d. All building material
   e. Sandpaper
   f. Kreg brand pocket-hole jig
   g. Biscut cutter

2. Supplied by the contestant:
   a. Safety glasses or goggles (must be Z87 stamped)
   b. Claw hammer
   c. Tape Measure
   d. Combination square
   e. Two pencils
   f. Nail set
   g. Block or smooth plane (optional)
   h. Four 24" pipe or bar clamps
   i. Standard screwdriver
   j. Phillips tip screwdriver
   l. Router and/or Laminate Trimmer
   m. Flush Trim bit for plastic laminates
   n. ¼" and 3/8" radius round over & 45-degree router bits that fit your router
   p. Cordless hand drill and extra battery
   q. 1/16", 1/8", 5/32", 3/16" &1/4" twist drill bits
   s. Utility Knife
   t. Earplugs or Hearing Protection
   u. Palm or orbital sander (Supply your own abrasives)
   w. Kreg Jig (optional), doweling jig (optional), biscuit cutter (optional) use one means for face frame construction.
   y. Band clamp

SCOPE OF THE CONTEST

1. Contestants will be given all necessary information by job sheets or prints of articles to be constructed. Contestants will use joinery techniques as specified.
2. Contestants will demonstrate their ability to perform jobs or skills selected from the following list of competencies as determined by the contest Technical Committee:
   - **b. Assemble, Fasten and Install Components**
     1. Apply clamping devices
     2. Assemble drawers, panel door and joint
     3. Assemble ends, back, bracing and face frame
     4. Attach molding/trim
     5. Fasten parts with nails, screws and staples
     6. Fasten top to casework
     7. Glue boards edge to edge
     8. Install catches, doors, drawer rail and guides, hinges, pulls and knobs, shelves and track and slide for sliding doors
     9. Reinforce joints with block/dowel/biscut/kreg jig
   - **c. Cutting and Shaping Components**
     1. Cut butt joint, counter top, dado/rabbet joint, doors, doweled joint, and drawer guides and runners (rails)
     2. Cut drawer front, sides, back and bottom
     3. Cut ends, back, and interior bracing
     4. Cut face frame, miter joints, molding trim, frames and panels, shelving, spline joints, and tongue and groove joints
     6. Edge (shape) counter top
     7. Plane stock
     8. Square solid stock
   - **d. Designing and Laying Out**
     1. Determine materials from a blueprint
   - **e. Finishing Surfaces**
     1. Apply lacquers, paints, stains, varnishes/polyurethanes, and wood filler to nail or screw holes
     2. Clean surfaces
     3. Remove excess glue
     4. Sand surfaces
     5. Swell dents
   - **f.** All contestants will be provided with similar kits of wood and hardware.

4. Contestants will be evaluated on the following:
   - **a. Layout and construction of project**
     1. **Accuracy in measuring and cutting - one point off for every 1/16" mistake in**
        - measuring
        - cutting
        - milling joints (depth and width)
     2. **Workmanship (neatness) - one point off for each of the following infractions**
        - hammer marks
        - bent and/or protruding nails

- chipped/broken exposed edges
- glue spots and exposed areas
- dents and nicks on exposed areas

b. Safety

1. Safety equipment - one point off for each infraction

- push sticks--where applicable
- eye protection--face shield, goggles

2. Clothing, personal - one point off for each infraction

- long, unbuttoned sleeves
- shirt-tail out
- loose jewelry, ties, etc.
- hair too long--not tied up or under cap

3. General machine operation and work area - one point off for each infraction

- dirty, messy work area
- safety infractions on machine use
- nails sticking in boards, etc.

8. The contestant may be penalized up to twenty five points for not complying with the clothing requirements. Absence of prescribed personal safety items may disqualify contestant.

PROOF OF TRAINING FOR SKILLSUSA NORTH DAKOTA CHAMPIONSHIP CABINETMAKING CONTESTANT ORIENTATION

School: _____

Contestant's Full Name: _____

This is to certify that the above named contestant has received safety and operational instructions for the following power equipment which may be used in the Cabinetmaking Contest:

_____Biscuit Jointer	_____Hand Drill	_____Router
_____Power Miter Saw	_____Jointer	_____Jig Saw
_____Disc and Belt Sander	_____Pneumatic Nailer	_____Table Saw
_____Drill Press	_____Radial Saw	

Contestant's signature: _____ Date: _____

Instructor's Signature: _____ Date: _____

Note: Attach this card to registration form for above named contestant.