

# **Iowa SkillsUSA Cabinetmaking competition**

## **DMACC Architectural Millwork Program**

Building 16

Des Moines Area Community College

2006 S Ankeny Blvd.

Ankeny, IA 50023

515-965-7118

Coordinated by: George Granseth, Chair, DMACC Architectural Millwork

All participants certify with their involvement with this contest that they have been trained in the proper and safe use of the following equipment:

- Hammer, clamps, screw drivers, chisels, sanders and other small hand tools
- Battery powered or line voltage drill
- Jigsaw
- Biscuit joiner
- Plunge router
- Edge router
- Powered Mitre saw both fixed and sliding
- Kreg jig pocket screw machine
- Drill press
- Band saw
- Table saw

All participants will wear safety glasses and proper clothing for shop activity. Long hair must be tied in a pony tail. No jewelry, such as necklaces or bracelets, that is loose or hanging. No sweatshirts, shorts or baggy pants. Steel toed shoes are recommended. No sandals or open toed shoes of any kind. Official SkillsUSA uniforms are not required.

The participants also certify that the Iowa Association of SkillsUSA, the Iowa SkillsUSA Championships Technical Committee, Des Moines Area Community College, DMACC employees, and Contest Judges are released from all responsibility relating to personal injury resulting from the use or misuse of the above listed power equipment. The signature of the advisor on the contestant registration form is also verification that the proper instruction on the safe use of the aforementioned equipment 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.

## **Specifications for the competition Cabinet Project:**

1. All sheet goods are supplied in general sizes that will have to be cut to length and width. All lumber and moulding will have to be cut to length.
  - a. Accuracy – For each 1/16” error in each of the following areas from the specification, one point will be deducted from the total of 10 available.
    - i. Measuring parts
    - ii. Cutting parts to size
    - iii. Milling grooves, biscuits and decorative routs
2. Dadoes will be cut using straight edge and router supplied.
3. Decorative cutout on face frame will be cut using template, jigsaw and router supplied.
4. The timeline suggested for this project is as follows:
  - a. Cut to size and mill all parts for the box. All biscuits to assemble box are size #10.
  - b. Assemble and sand box.
  - c. Cut to size and mill parts for the face frame.
  - d. Assemble and sand face frame.
  - e. Attach face frame to box using glue and pocket screws.
  - f. Cut top sheetgood to size. Mitre and biscuit solid wood edge band to all four edges of the top sheetgood.
  - g. Laminate the top and trim edges with laminate trimmer then run edge router around the top.
  - h. Install top on the cabinet with screws as shown in drawing.
  - i. Cut beaded moulding to fit with in the openings in the face frame and install using glue masking tape clamps and pin nailer furnished.
  - j. Cut door parts to size. Cut size #0 biscuit slots in the mitres and assemble using 2 space balls placed 1” from end of mitre on each part.
  - k. Install door using hinges supplied according to plan detail.

Tools required to be brought by participant:

- 1.) pencil
- 2.) battery drill and batteries
- 3.) 6" #2 sq drive tip for pocket screws
- 4.) Measuring tape
- 5.) Framing Square
- 6.) Bottle of Titebond

All materials, Kreg tools, biscuit cutters and biscuits, routers and bits, table saw and clamps will be supplied by DMACC.