Provincial Scope Document

CABINETMAKING (24) (Post-Secondary) 2027

Contest Date: April 14th, 2027
Contest Length: 6 hrs. ***Registration: 7:30***
Contest Start: 8:30

Contest Sponsor: BCIT and Reimer Hardwoods

Purpose of the challenge:

To assess the contestant's knowledge and skill in cabinetmaking by building a simple project from a provided drawing.

Skills & knowledge to be assessed may include:

- Safety and safe equipment practices.
- Structure, properties and uses of wood and other materials suitable for cabinetmaking such as:
  - veneer
  - fiberboard
  - particle board
  - hardboard
  - plywood
  - adhesives
  - abrasives
  - hardware
  - metal fastenings
- Design and construction of cabinetry products.
- The set-up and safe operation of basic wood working machines, portable power tools and hand tools.
- The project may consist of dowel joints, mortise and tenon joints, biscuit joints, dado joints and other wood joints. Other skills like cutting shapes, routering, sanding, drilling etc. may also be included.
- The demonstration of sound machining, sanding, and assembly techniques in the building of a simple project to an acceptable standard.

Specific requirements:

Plan to arrive at 7:30 for registration. This will provide with an opportunity to try out the portable power tools prior to the start of the contest and to set up your tools on your assigned bench. Note: you may be sharing a bench with someone else.

- At the start of the competition a blueprint of the project will be issued and rules will be outlined.
- The safe practice of all machinery will be demonstrated by members of the Provincial Technical Committee before the contest starts.
- Once work on the project begins contestants are to work individually and not discuss the project with anyone but the judges. The project changes each year.
- There will be a ½ hour lunch break.
- If a mistake is made and you wish to have a new piece of wood, please get it from a judge who will record this error and deduct marks from your score. We may or may not be able to replace critical pieces such as table tops, gable ends or other large pieces. In these cases mistakes should be fixed or adjustments be made in order to complete the project
- Since time is limited, your solid wood may already be planed to thickness.
- During the contest, some joints may need to be marked by the judges prior to you gluing them together. Please read all your documentation that you receive on the day of the contest.
- Plan your work accordingly so that the judges may mark your joints and return them to you when they are done.
- All work to be done on site

Safety instructions:

- Contestants must know and comply with minimum industry safety standards at all times and will not be allowed to compete without the required safety equipment.
- Contestants must wear the appropriate clothing and safety equipment **at all times** while in the competition area: CSA approved steel toe footwear, protective eye wear and hearing protection.

Equipment / tools / materials

Supplied by Committee:

- Table saw (equipped with necessary blades)
- Band saw
- Thickness planer
- Jointer
- Drill press
- Vertical belt sander
- Portable vacuums
- Dust collection system
- Electric drills (cordless)
- Chop saw (with a finishing blade)
- Router with router table and router bits
- Portable routers
- Biscuit joiner
- Jig saw
- Belt sander
- Orbital palm sander
- Spring clamps

- Work bench with vise
- All project materials

Supplied by Contestant:

- CSA approved steel toe footwear (no running shoes)
- CSA approved eye protection and ear protection
- Suitable clothes, long pants, long or short sleeved shirts (No muscle shirts, or jewelry)
- Tape measures (metric/imperial)
- Combination square and a large steel square
- Hammer (finishing) and mallet
- Utility knife or striking knife
- Sanding block
- Nail sets
- Chisels 1/4, 3/8, 1/2, 3/4, 1”
- Pencil and eraser
- Drill bits (set 1/16" to 3/8")
- Marking gauge
- Dovetail saw
- Screw drivers (Slotted, Phillips, Robertson)
- Files/rasps (½ round, flat)
- 4 Bar clamps (that can reach at least 24”) and other desired clamps
- Other hand tools may be used.
- The above is a suggested minimum tool list.
  *****No other power tools may be used.*****
- No premade shop jigs may be used.

Judging / distribution of marks

- Safety / work habit (marks deducted for unsafe work habits)
- Accuracy, quality, machining, assembly, sanding, conformation to drawing
- A detailed mark sheet will be given to you prior to the beginning of the competition

Technical committee

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Gold medal winners at the BC Provincial Skills Competition are eligible to compete at the Canadian National Skills Competition May 27th and 28th, 2027 in Calgary Alberta.

Skills Canada BC reserves the right to make changes to the scope document.

Please check the website for updates.