



2023 Regional Skills Canada Competition



2023 Central Regional Skills Canada Competition

Contest Description (Scope Document)

Red Deer Polytechnic

March 18, 2023

EVENT: Cabinet Making	LEVEL: Secondary								
DURATION OF CONTEST: 6 HOURS	LOCATION: ROOM 804, RED DEER POLYTECHNIC								
COMPETITION SCHEDULE: <table border="1"> <tr> <td>ORIENTATION</td> <td>8:00-8:30AM</td> </tr> <tr> <td>COMPETITION</td> <td>8:30-11:30AM</td> </tr> <tr> <td>LUNCH</td> <td>11:30AM-12:00PM</td> </tr> <tr> <td>COMPETITION</td> <td>12:00-3:00PM</td> </tr> </table>	ORIENTATION	8:00-8:30AM	COMPETITION	8:30-11:30AM	LUNCH	11:30AM-12:00PM	COMPETITION	12:00-3:00PM	REGIONALIZED: YES If YES, To compete at the Provincial Skills Canada Competition students must qualify at their Regional Skills Canada Competition.
ORIENTATION	8:00-8:30AM								
COMPETITION	8:30-11:30AM								
LUNCH	11:30AM-12:00PM								
COMPETITION	12:00-3:00PM								
AWARDS CEREMONY INFORMATION: in Margaret Parsons Theatre (Room 1400) at approx. 4:00PM.									

PROJECT INFORMATION

The *Button Box* project is designed to provide an opportunity for contestants to demonstrate a variety of woodworking skills and abilities. Participants will need to be able to interpret the drawing and perform various joinery techniques to construct the project. The competent and safe use of hand tools, portable power tools and stationary power tools will be required to complete the project.

SKILLS AND KNOWLEDGE TO BE TESTED

- Reading plans
- Planning work procedures
- Layout and cutting of dovetail joints with hand tools
- Cutting components to size accurately with mitre and table saws
- Efficient glue up and assembly of the project
- Competent clean up and sanding of the project

PROJECT DESCRIPTION

The project is a 4 corner mitred box with a chamfered lid. It incorporates a hand dovetailed sliding tray as well as hardwood edging. The processes to complete this box are designed to reinforce common cabinetmaking practices, as well as test higher level hand skills in a short time frame. Proficiency in the Regional project will be a good building block to gain the skills necessary for the Provincial project.



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EQUIPMENT & MATERIALS

Each competitor will receive one (1) project kit that contains the required materials and hardware to build the project.

Competitors will not be allowed into the competition area without the required safety equipment. Every facility will have its own standards. (ear plugs will be available).

Competitors are encouraged to bring their own hand tools. Any tools not on the list below need to be approved by competition judges.

NO PRE-MADE JIGS WILL BE ALLOWED.

Milled material will be provided to use on site.

Equipment and materials competitors must supply:

Safety glasses	Safety foot wear	Metric tape measure
Pencils (HB or 2H)	Calculator (optional)	

Equipment & materials supplied by the committee:

HAND TOOLS	EQUIPMENT	SUPPLIES
Sanding Block	Table saw- mitre gauge or crosscut sled/mitre sled	All Material & hardware for project
Block plane		Limited extra pieces
Coping/Fret saw	Router table	*extra materials for setup
Scratch awl	Compound Miter saws	All adhesives
Square	Drill Press / Cordless drills	Masking tape
Sliding bevel	Laminate Trimmers	Sandpaper (80-220 grit)
Dovetail saw	Bar and f-clamps	Necessary dowel
Bevelled chisels	All necessary router bits	
Workbench	All necessary drill bits	



RECOMMENDED PROCEDURES LIST

Instructors may set up some or all router table operations depending on facility.

Mitres for Carcass- Table Saw with a mitre gauge & auxiliary fence or mitre sled or mitre saw

Plough (Dado) cut for tray- Router table. This is a through cut **(NOT STOPPED)**.

Plough (Dado) cut for carcass- Router table or multiple cuts ripping on the Table Saw.

Rabbet for Lid- Router table or Table saw with supervision.

Chamfer for Lid- Router table set up or laminate trimmer with material clamped.

Dowels and Lid hole- Drill press or hand drill.

Dovetails- Hand Cut Only. No power tools may be used in any part of this process.

Edging- Flush trim bit on a laminate trimmer or block plane and hand sanding.

SAFETY

The health, safety and welfare of all individuals involved with Skills Canada Alberta are of vital importance. Safety is a condition of participation with Skills Canada Alberta and shall not be sacrificed for the sake of expediency. At the discretion of the judges and technical committees, any competitor can be denied the right to participate should they not have the required proper safety equipment and/or act in an unsafe manner that can cause harm to themselves or others.

CLOTHING REQUIREMENT

It is important that competitors present a professional image and appearance. Appropriate work clothing must be worn to compete. All clothing must be neat and clean and free of rips and tears. Casual wear such as shorts will not be permitted. No loose fitting clothes or jewelry.



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RELATED CAREER AND TECHNOLOGY STUDIES COURSES

Descriptions of all modules are located at the following website:

https://education.alberta.ca/media/160534/con_course_summaries_old.pdf

CON1010	CON1120	CON1130	CON1160
CON2130	CON2140	CON2170	

JUDGING CRITERIA

•	Dimensions	25%
•	Joinery	45%
•	Fit and Finish	30%
	Overall Total	100%

TIE BREAKING PROCESS

The quality of the dovetails will determine the winner in the event of a tie. If the results are still inconclusive the quality of the remaining joinery will be used.

ADDITIONAL INFORMATION

Lunch will be provided for all competitors. Unfortunately, all allergies may not be able to be accommodated for. Please connect with the local Regional Coordinator for more information. Regulations & Policies: A copy of the Skills Canada Alberta Regional Regulations & Policies can be found at the following link: <https://skillsalberta.com/policies-and-procedures>

REGIONAL COMMITTEE MEMBERS

Dustin Sejd
Gary Halvorson