



2024 Central Regional Skills Canada Competition

Contest Description (Scope Document)

Red Deer Polytechnic (100 College Blvd, Red Deer)

March 16, 2024

EVENT: Cabinet Making	LEVEL: Secondary										
DURATION OF CONTEST: 6 HOURS	LOCATION: RM 804 (Carpentry Lab)										
COMPETITION SCHEDULE: <table border="1"> <tr> <td>ORIENTATION</td><td>7:30-8:00AM</td></tr> <tr> <td>COMPETITION</td><td>8:00-11:15AM</td></tr> <tr> <td>LUNCH</td><td>11:15AM-12:00PM</td></tr> <tr> <td>COMPETITION</td><td>12:00-2:45PM</td></tr> <tr> <td>AWARDS CEREMONY</td><td>4:00PM</td></tr> </table>	ORIENTATION	7:30-8:00AM	COMPETITION	8:00-11:15AM	LUNCH	11:15AM-12:00PM	COMPETITION	12:00-2:45PM	AWARDS CEREMONY	4:00PM	REGIONALIZED: YES If YES, To compete at the Provincial Skills Canada Competition students must qualify at their Regional Skills Canada Competition.
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AWARDS CEREMONY INFORMATION: Nova Learning Commons Skills Recognition area at 4pm.											

SKILLS AND KNOWLEDGE TO BE TESTED

- Reading & interpreting drawings
- Planning work procedures
- Layout and cutting of dovetail joints with hand tools only
- Cutting components to size accurately with stationary power tools
- Efficient & effective glue up and assembly of project
- Ability to produce a clean and well-sanded project for evaluation

PROJECT DESCRIPTION

The *Wall Cabinet* project is designed to provide an opportunity for contestants to demonstrate a variety of woodworking skills and abilities. The competent and safe use of hand tools, portable power tools and stationary power tools will be required to complete the project.

This project has two prominently displayed hand-cut dovetails for the top corners. The bottom shelf of the cabinet will be installed using a single size-20 biscuit, with the fixed shelf being glued into a dado cut into the sides. Through dowels will be used to install the hanging rail and to also reinforce the single dado. The top is oversized in width with a 45-degree chamfer on the front to add detail above the door. The door itself will be supplied over-sized with top and bottom pre-edged, students will be responsible for cutting the door to size and installing the remaining two edges. Students will also be required to install two non-mortise hinges in order to hang the door.

Proficiency in the Regional project will be a good building block to gain the skills necessary for the Provincial project.

EQUIPMENT & MATERIALS

Each competitor will receive one (1) project kit that contains the required materials and hardware to build the project. Any extra materials required by the competitor, in addition to what has been supplied in the project kit, will lead to an automatic deduction in that competitor's score.

Competitors will not be allowed into the competition area without the required safety equipment.

Competitors are encouraged to bring their own hand tools. However, no pre-made jigs will be allowed, this includes pre-set dovetail markers and dowel jigs.

Any tools not on the list below need to be approved by competition judges and/or committee members.

Equipment and materials competitors must supply:

Safety glasses	Closed-toe 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 with 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	Biscuit Joiners	Necessary dowels & biscuits
Beveled chisels	Bar and f-clamps	
Workbench	All necessary router bits	
	All necessary drill bits	

Recommended Procedure List:

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

Dovetails - Hand cut, no power tools may be used in any part of this process. Dovetails will be evaluated pre- and post-assembly.

Dado for Case - Table Saw (multiple cuts) or router table (each with mitre gauge & auxiliary fence).

Biscuits for Lower Shelf - Biscuit joiner. Students should be familiar with how to check and adjust for proper setup.

Door Sizing - Table saw and/or mitre saw.

Door Edging - glue and clamped, finished with a flush trim bit on a laminate trimmer or block plane.

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

No-mortise hinges - Hand drill and/or screwdriver with scrap case material to prop up door.



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 as inappropriate clothing may present safety risks. All clothing must be free of rips and tears, with no vulgar images or text. No loose fitting clothing or excessive jewelry. Casual wear such as shorts will not be permitted.

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

1. Dimensions	25%	
2. Joinery	45%	
3. 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

Andrew Campbell	NAIT
Ivan Mazuryk	Notre Dame High School
Aaron Saunders	Lord Beaverbrook High School
Dustin Sejdí	
Gary Halvorson	Red Deer Polytechnic