



# 2023 Regional Skills Canada Competition



## 2023 Edmonton Regional Skills Canada Competition

### Contest Description (Scope Document)

NAIT Main Campus

April 15, 2023

<b>EVENT:</b> Cabinet Making	<b>LEVEL:</b> Secondary								
<b>DURATION OF CONTEST:</b> 6 HOURS	<b>LOCATION:</b> NAIT, Main Campus 11762 – 106 Street Edmonton, Alberta, Room V111								
<b>COMPETITION SCHEDULE:</b> <table border="1"> <tr> <td>ORIENTATION</td> <td>7:30-8:00AM</td> </tr> <tr> <td>COMPETITION</td> <td>8:00-11:30AM</td> </tr> <tr> <td>LUNCH</td> <td>11:30AM-12:00PM</td> </tr> <tr> <td>COMPETITION</td> <td>12:00-2:30PM</td> </tr> </table>	ORIENTATION	7:30-8:00AM	COMPETITION	8:00-11:30AM	LUNCH	11:30AM-12:00PM	COMPETITION	12:00-2:30PM	<b>REGIONALIZED: YES</b> <b>If YES, To compete at the Provincial Skills Canada Competition students must qualify at their Regional Skills Canada Competition.</b>
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### 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.





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

## EQUIPMENT & MATERIALS

### Equipment and Materials Competitors To Supply:

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

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)	

- NO PRE-MADE JIGS WILL BE ALLOWED. Milled material will be provided.

### 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 stopped 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.

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.

### 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](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.

Parking information & venue maps:

[https://www.nait.ca/docs/NAIT\\_Main\\_campus\\_map\\_Sep2018.pdf](https://www.nait.ca/docs/NAIT_Main_campus_map_Sep2018.pdf)

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>