

2020 REGIONAL SKILLS CANADA COMPETITION



2020 Central Regional Skills Canada Competition

Contest Description (Scope Document)

Red Deer College

April 04, 2020

EVENT: Cabinet Making		LEVEL: Secondary								
DURATION OF CONTEST: 6 HOURS		LOCATION: Red Deer College - 804 South Shop								
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.
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AWARDS CEREMONY INFORMATION: To Be Held In The Margaret Parsons Theatre (Room 1400) Approx. 4 P.M.										

CONTEST INTRODUCTION

The contest 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 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 mitred case with a “piston fit” drawer. The project incorporates many of the joinery techniques and procedures used in the Provincial project including:

- A grain wrapped mitred case reinforced with dowel pegs
- Hand cut dovetails as part of a wood on wood sliding drawer

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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)	

- Competitors will not be allowed into the competition area without the required safety equipment (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.
- **Competitor hand tools will be provided by SCHOOL and / or COMPETITOR. The committee can supply hand tools if needed but must be arranged in advance.**
- NO PRE-MADE JIGS WILL BE ALLOWED. Milled material will be provided to use on site.

Equipment and Materials Supplied by the Committee:

all wood and materials	Sanding Block	Workbench
all adhesives	Coping/Fret saw	Dovetail saw
Sandpaper (80-150 grit)	Table-mounted router	1/8" brad point drill bit
Hardware, screws, dowels & biscuits	½" double-fluted straight router bit	Bench grinder and honing station
Compound Miter saws	Table saw- with sled	Marking gauge
Portable Power drill	Plate joiner	Block plane
Scratch awl	Try square	Set of bevelled chisels
Pencil sharpener	Bar clamps	Screw drivers
Masking tape	Dado blade set	Crosscut sled
Sliding t-bevel	18 & 23 gauge brad-nailers	

JUDGING CRITERIA

• Theory Exam	5%
• Dimensions	20%
• Joinery	40%
• Fit and Finish	35%
Overall Total	100%

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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.

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 CON2130
CON1120 CON2140
CON1130 CON2170
CON1160

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.

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.

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RECOMMENDED PROCESS

Step	Procedure
Dovetail Joints	All parts of the joint MUST BE CUT BY HAND . No pre-made jigs allowed. Scrap material will be available if desired.
Case Mitres	Case material will be provided to the competitor in 1 or 2 lengths (matching). Recommended to cut parts slightly oversize, approx. 2 mm, with straight cuts and then cut mitres to final size with either sliding compound mitre saw or table saw and mitering sled. Assembly can be done with tape and/or clamps as required.
Rabbet Joints	Set up on Router Table with fence, use a chaser block (provided) or Table Saw with dado blades, use mitre gauge with backing.
Bottom Grooves	Set up ¼" bit in router table, use stop blocks for drawer sides as required, groove could run through the back of the drawer side but should stop for the front dovetails.

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>

COMMITTEE MEMBERS

Gary Halvorson – Chair
Dustin SejdI – Co-Chair
Larry Berge - Judge
Vanessa Hartum - Judge
Gavin Gaudry – Judge