



2024 Lakeland Regional Skills Canada Competition

Contest Description (Scope Document)

Lakeland College, Vermilion, AB

April 22, 2024

| | | | | | | | | | | | | |
|--|------------------|---|-----------------|-------------|-----------------|-------------|-----------------|-------|------------------|-----------------|--------|--------------------------|
| EVENT: Cabinet Making | | LEVEL: Secondary | | | | | | | | | | |
| DURATION OF CONTEST: 6 HOURS | | LOCATION: Trades Centre Carpentry Shop, TC131 | | | | | | | | | | |
| COMPETITION SCHEDULE: <table><tr><td>REGISTRATION</td><td>7:30AM - 7:45AM</td></tr><tr><td>ORIENTATION</td><td>7:45AM - 8:00AM</td></tr><tr><td>COMPETITION</td><td>8:00AM - 2:30PM</td></tr><tr><td>LUNCH</td><td>12:00PM -12:30PM</td></tr><tr><td>AWARDS CEREMONY</td><td>4:00PM</td></tr></table> | | REGISTRATION | 7:30AM - 7:45AM | ORIENTATION | 7:45AM - 8:00AM | COMPETITION | 8:00AM - 2:30PM | LUNCH | 12:00PM -12:30PM | AWARDS CEREMONY | 4:00PM | REGIONALIZED: YES |
| REGISTRATION | 7:30AM - 7:45AM | | | | | | | | | | | |
| ORIENTATION | 7:45AM - 8:00AM | | | | | | | | | | | |
| COMPETITION | 8:00AM - 2:30PM | | | | | | | | | | | |
| LUNCH | 12:00PM -12:30PM | | | | | | | | | | | |
| AWARDS CEREMONY | 4:00PM | | | | | | | | | | | |
| AWARDS CEREMONY INFORMATION: Alumni Hall (AH Cafeteria) | | | | | | | | | | | | |

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, Neil Napora, for more information. neil.napora@lakelandcollege.ca

Parking information & venue maps:

https://www.lakelandcollege.ca/en/resources/Vermilion_CampusMaps.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>

COMMITTEE MEMBER

| |
|----------------|
| TREVOR PROVICK |
|----------------|