



2018

SCNC

SKILLS CANADA
NATIONAL COMPETITION

OCMT

OLYMPIADES CANADIENNES
DES MÉTIERS ET
DES TECHNOLOGIES


SkillsCompétences
Canada
Edmonton2018

CONTEST DESCRIPTION / DESCRIPTION DE CONCOURS

CABINETMAKING ÉBÉNISTERIE

SECONDARY AND POST-SECONDARY /
NIVEAUX SECONDAIRE ET POSTSECONDAIRE



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1 THE ESSENTIAL SKILLS FOR CAREERS IN THE SKILLED TRADES AND TECHNOLOGY

SCC is currently working with Employment and Social Development Canada (ESDC) in order to bring awareness to the importance of Essential Skills that are absolutely crucial for success in the workforce. Part of this ongoing initiative requires the integration and identification of Essential Skills in contest descriptions, projects, and project documents. The next phase and very important aspect of our Essential Skills (ES) initiative is to provide an ES report card to each competitor at the Skills Canada National Competition. The purpose of the ES report card is to inform the competitor about their current level of essential skills based on their competition scores. With this knowledge, the competitor will be made aware which essential skill may require improvement. Full implementation is expected in the next Skills Canada National Competition.

The following 9 skills have been identified and validated as key essential skills for the workplace in the legend below:

¹Numeracy, ²Oral Communication, ³Working with Others, ⁴Continuous Learning, ⁵Reading Text, ⁶Writing, ⁷Thinking, ⁸Document Use, ⁹Digital

These essential skills have been identified with in section 2.3 and/or 3.2 of your Contest Description. The top three Essential Skills for your area of competition have been identified on your Project and all other supporting project documents.

2 CONTEST INTRODUCTION

2.1 Description of the associated work role(s) or occupation(s)

<http://skillscompetencescanada.com/en/skills/construction/cabinetmaking/>

2.2 Purpose of the Challenge.

To assess and promote the contestant's knowledge and skills in cabinet making by building a project from a drawing provided.

2.3 Duration of contest.

12 hours

2.4 Skills and Knowledge to be tested.

- Working properties of wood and use of other materials such as veneer, fibreboard, particleboard, plywood, adhesives, abrasives, hardware, metal fastenings
- Construction of cabinetry product
- Compliance with safety regulations and use of safety equipment
- Technical drawings are metric

3 CONTEST DESCRIPTION

3.1 List of documents produced and timeline for when competitors have access to the documents.

DOCUMENT	DATE OF DISTRIBUTION VIA WEBSITE
Test Project (drawings)	January, 2018

3.2 Tasks that may be performed during the contest

- Set-up and safe operation of woodworking machines, portable power tools and hand tools⁷
- From the drawing provided, demonstrate handwork, machining, sanding and assembly techniques in the building of a project to a professional standard^{1,8}
- During competition all material, equipment, plans and work must remain on site
- No wood putty may be used at any time during the competition
- Must read and interpret drawings and documentation provided⁸

Essential Skills – ¹Numeracy, ⁷Thinking (Problem Solving, Decision Making), ⁸Document Use

4 EQUIPMENT, MATERIAL, CLOTHING

4.1 Equipment and material provided by Skills/Compétences Canada

- Table saws c/w blades
- Mitre saws
- Project specific jigs (templates if required)
- Routers
- Router tables
- Work benches with vises
- Band saws and Band saw blades 3/8, 6TPI
- Bar clamps
- All project materials (wood, glue, dowels, hand sandpaper 100,120,150 etc.)
- Portable power tools
- Mortising machines
- Drill Presses
- Vacuum Bags
- Portable Sanders
- Edge sander
- Biscuit machines
- 6" glue roller and glue roller tray
- 24" & 48" Bessey clamps
- Dust Collector
- Mortising chisel 3/8"
- Mortiser & Stand
- 14" bandsaw

- Drill press
- Edge Sander
- Router bit 1/2" Straight fluted (1/2" shank)
- 80 Tooth x 10" finishing blade
- Toggle Clamps
- Wood glue (bottle)
- Router bit 1/2" Chamfer
- Router table with router
- Sand Paper for Edge Sander 120 grit
- Sliding table accesory-sawstop
- Table saw Rip 40T blades 10"
- Table saw dado set blades 8"
- Table saws – Sawstop
- Table saw Plywood 80T blades 10"
- Router bit 1/2" with 1/2" shank
- 8mm brad point drill bits
- Orbital Sand paper 5" 120, 150, 220
- Orbital Sander 5"
- #20 Biscuits
- 12" Miter Saw and Stand
- Biscuit Joiner
- Portable Drill
- Miter saw stands

COMPETITORS WILL BE REQUIRED TO USE THE MATERIAL AND EQUIPMENT PROVIDED BY SCC. ALL OTHER MATERIAL AND EQUIPMENT WILL BE REMOVED FROM THE SKILL AREA.

4.2 Equipment and material provided by the competitor.

- Assorted driver bits
- Tape measure (**with metric**)
- Combination square/tri-square
- Hammer or wood mallet – not rubber
- Block plane
- Sanding block
- Chisels (1/4", 1/2", 3/4", 1")
- Pencils and eraser, calculator
- Drill bits (set of 1/16" to 3/8")
- 2 files (round and flat)
- Marking gauge
- Dovetail or back saw
- Screwdrivers (basic set)
- Dowel jig and Dowel centres
- Masking tape
- Utility knife
- Cabinet Scraper
- Veneer knife/saw
- 4 – 12" clamps or quick grip clamps

4.3 Required clothing provided by the competitor.

- Contestants must wear appropriate clothing (no muscle shirts, shorts etc.)

5 SAFETY REQUIREMENTS

5.1 Safety workshop

Upon arrival at the Skill area, Competitors will participate in a Safety workshop and they will be expected to work and maintain a safe working area during the competition. Any Competitor breaking any health, safety and environmental rules, may be removed from the competition.

5.2 List of required personal protective equipment (PPE) provided by the competitor.

- Hearing protection
- CSA approved Safety shoes
- Safety Glasses

6 ASSESSMENT

6.1 Point breakdown

POINT BREAKDOWN	/100
Safety/Work habits	5
Conformance with specifications & accuracy of measurements	20
Quality of joints – marked before gluing	20
Quality of assemblies	15
Quality of sanding	15
Squaring	10
Fittings	10
Material usage	5

7 CONTEST SPECIFIC RULES

Contest specific rules cannot contradict or take priority over the Competition Rules. They do provide specific details and clarity in areas that may vary from contest to contest. Any additional contest rules will be reviewed during competitor orientation.

TOPIC/TASK	CONTEST SPECIFIC RULE
Tool / Infrastructure	<ul style="list-style-type: none"> Competitors may bring any other hand tools use on a regular basis, but must have them approved by the National Technical Committee at the competitors orientation Competitors are not allowed to bring or use portable power tools Competitors are not allowed to bring or use pre-made project-specific jigs or tooling

8 ADDITIONAL INFORMATION

8.1 Consecutive translation

If consecutive translation is required on site, the Skills/Compétences Canada Provincial/Territorial offices must advise Skills/Compétences Canada National Secretariat a minimum of 1 month prior to the competition or this service might not be guaranteed.

8.2 Tie (No ties are allowed)

In the event of a tie, the competitor with the highest score in conformance with specifications & accuracy of measurements criteria will be declared the winner. If a second tie occurs, the competitors with the highest score in the safety criteria will be declared the winner. If a third tie occurs, the competitor with the highest score in the quality of sanding criteria will be declared the winner.

8.3 Test Project change at the Competition

Where the Test Project has been circulated to Competitors in advance, NTC shall change a maximum of 30% of the work content. Please refer to the Competition Rules.

8.4 Competition rules

Please refer to the [competition rules](#) of the Skills Canada National Competition

9 NATIONAL TECHNICAL COMMITTEE MEMBERS

Member Organization	Name
Yukon	Gerry Quarton
Alberta	Mick McGowan
Saskatchewan	Brad Peterson
Manitoba - Chair	Todd Birtwhistle
Ontario	Douglas Coleman
New Brunswick	Nick Maltais
Prince Eduard Island	Graham Hicken
Newfoundland and Labrador	Kelly Tompkins
British Colombia	Dave Dunn

Contact the Skills/Compétences Canada national secretariat for any questions or concerns: Marilou Leduc (mariloul@skillscanada.com).