



2018

SCNC

SKILLS CANADA
NATIONAL COMPETITION

OCMT

OLYMPIADES CANADIENNES
DES MÉTIERS ET
DES TECHNOLOGIES



SkillsCompétences
Canada
Edmonton2018

CONTEST DESCRIPTION / DESCRIPTION DE CONCOURS

ARCHITECTURAL TECHNOLOGY & DESIGN

DESSIN ET TECHNOLOGIE ARCHITECTURALE

POST- SECONDARY /
NIVEAUX 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/careers/information-technology/architectural-technology-design/>

2.2 Purpose of the Challenge

To assess the competitor's skills in performing design and drawing tasks.

To assess the competitor's abilities to apply the following key themes:

- Architecture - envelope design, space planning, materials selection, environmental sustainability design concepts and the application of accessibility design standards and the National Building Code of Canada
- Engineering - awareness of structural framing layouts
- Construction – materials and methods of construction; regulatory standards (eg. construction standards) and knowledge of construction assemblies

2.3 Duration of contest 12 hours

2.3 Skills and Knowledge to be tested

- The contestant will be challenged with interpreting instructions to develop a set of commercial working drawings⁸
- Knowledge of detailing, planning concepts and space relationships⁷
- Code interpretation and application - National Building Code of Canada. All drawings MUST adhere to the National Building Code of Canada **ONLY**. Provincial or municipal amendments do not apply.
- Drawing Standards - sheet layout, adherence to industry drawing standards, proper use of scales and symbols. Articulation of drawings to a professional standard⁸.
- Building Type:
 - 600 square meters or less in size
 - Commercial building type to include concrete, steel, masonry and/or curtain wall system.

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
No other competition document will be released prior to the competition	

3.2 Tasks that may be performed during the contest

- Pre-requisites
 - Preparation of Working Drawings⁸
 - BIM / CADD⁹
 - Planning and design concepts⁸
 - Detailing and sketching skills⁷

Note: Competition test will include floor plans, elevations, building cross sections, wall sections and construction details.

Essential Skills - ⁷Thinking (Significant use of Memory, Critical), ⁸Document Use, ⁹Digital

4 EQUIPMENT, MATERIAL, CLOTHING

4.1 Equipment and material provided by Skills/Compétences Canada

- Laser printer and/or plotter

4.2 Equipment and material provided by the competitor

- Windows compatible hardware
- Autodesk Products (AutoCAD, AutoCAD Architecture, Revit)
- No internet access during competition
- PDF creation software (ie. Adobe Acrobat Writer)
- If competitors are bringing a computer or laptop from their school (instead of their personal computer), please ensure that the computer is unlocked so documents and possibly software can be saved/installed to the hard drive and technology support can be provided onsite. This may require access to CMOS settings.
- Latest edition of the National Building Code of Canada
- Scales (metric and imperial)
- Calculator
- Pencil
- Paper
- Empty USB drive
- Software reference manuals, Textbooks and Electronic data (e.g. CD or diskette) are **not** permitted

4.3 Required clothing provided by the competitor.

- N/A

5 SAFETY REQUIREMENTS

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

- No PPE required

6 ASSESSMENT

6.1 Point breakdown

POINT BREAKDOWN	/100
Day 1 - Working Drawing(s)	50
Day 2 - Working Drawing(s)	50

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
Technology - music	<ul style="list-style-type: none"> MP3 players or cell phones on airplane mode are permitted during competition provided the volume is not disruptive to other competitors

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 the Construction Detailing Component of the test will be declared the winner. If a tie still exists at this point, the competitor with the highest score in the Floor Plan(s) Component of the test will be declared the winner. If a tie still exists at this point, the competitor with the highest score in the Elevation(s) Component of the test will be declared a winner.

8.3 Competition rules

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

9 NATIONAL TECHNICAL COMMITTEE MEMBERS

Member Organization	Name
Prince Edward Island - Chair	Bruceyene M-Collins
Manitoba	Scott Fraser
Alberta	William Thompson
Ontario	Joel Foster
Saskatchewan	Andrea Clayton
British Columbia	Wes Macaulay

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