



CONTEST DESCRIPTION

Architectural Technology & Design

POST-SECONDARY

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

The Government of Canada has updated the previous Essential Skills framework to the new Skills for Success model in response to the evolving labour market and changing skill requirements. This model outlines nine fundamental skills Canadians need to thrive in work, education, training, and daily life.

Skills/Compétences Canada aims to highlight the importance of these skills, vital for success in trade and technology careers. Competitors can see how Skills for Success are integrated into contest descriptions, projects, and project documents. Recognizing these skills during the competition helps competitors match tasks with specific skills necessary for success and understand how these skills apply within their trade or technology programs and future careers.

The nine key Skills for Success, validated for workplace success, are:

1. Numeracy
2. Communication
3. Collaboration
4. Adaptability
5. Reading
6. Writing
7. Problem Solving
8. Creativity and Innovation
9. Digital

These Skills for Success are detailed in sections 2.4 and/or 3.2 (to be completed by SCC) of your Contest Description and, if relevant, in your Project and supporting documents.

2 CONTEST INTRODUCTION

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

https://www.skillscompetencescanada.com/en/skill_area/architectural-technology-and-design/

2.2 Purpose of the Challenge

To evaluate each competitor's ability to interpret project requirements and prepare a set of architectural working drawings using computer aided design software and to recognize outstanding competitors for excellence and professionalism in their field

2.3 Duration of contest

12 hours

2.4 Skills and Knowledge to be tested.

Prior to the arriving at the competition, each competitor shall create a metric A1 size template with the title block containing the information provided in the example posted on the Skills/Compétences Canada website and have this template accessible on their computer for use during the competition.

The competitor will be challenged with design and drawing tasks applying the following key themes:

- Architectural Principles
- Sustainable Design Principles⁷
- Space planning concepts, space relationships and accessibility design standards⁷
- Preparation of working drawings^{6,8}
- Proficiency in the use of computer aided design software⁹
- Building Codes
- Interpret and apply the National Building Code of Canada⁵
- All drawings MUST adhere to the National Building Code of Canada ONLY. Provincial or municipal amendments do not apply.
- Engineering Principles
- Awareness of structural framing layouts
- Awareness of building systems interface; integration of mechanical and electrical building systems
- Building Science and Constructability
- Building envelope design⁷
- Proficiency in detailing⁷
- Materials and methods of construction; and knowledge of construction assemblies⁷

Skills for Success - ⁵Reading, ⁶Writing, ⁷Problem Solving, ⁸Creativity & Innovation, ⁹Digital

3 CONTEST DESCRIPTION

3.1 List of documents produced and timeline for when competitors have access to the documents on the Skills/Compétences Canada website.

DOCUMENT	DATE OF DISTRIBUTION
Test Project	December 2025

3.2 Tasks that may be performed during the contest.

- Building Code Analysis⁷
- Knowledge of construction materials
- Interpretation of project requirements for a structure incorporating wood, concrete, steel, masonry and/or a curtain wall system^{5,7}

- Preparation of Working Drawings including the preparation of floor plans, elevations, building cross sections, wall sections and construction details, etc.⁸
- Preparation of 2D and 3D presentation drawings and/or renderings.
- Use of Autodesk Revit 2022 or newer⁹
- Exporting drawings as a PDF⁹
- Planning and design concepts^{6,8}
- Technical detailing skills⁷

Skills for Success – ⁵Reading, ⁶Writing, ⁷Problem Solving, ⁸Creativity and Innovation, ⁹Digital

4 EQUIPMENT, MATERIAL, CLOTHING

4.1 Equipment and material provided by Skills/Compétences Canada

- Laser color printer (up to 11x17")
- USB
- Single monitor ONLY will be provided to each competitor. The following combinations of equipment will be permitted:
 - Tower and two screens (one screen provided by SCC), or
 - Laptop and one screen (one screen provided by SCC)
- SCC supplied monitor will have a display port input
- Table and chair
- 120VAC power supply

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.

- Competitors are required to supply their own computer and peripherals, including mouse, keyboard, cables and docking station if as required.
- Competitors device must have display port out OR,
- Competitor must bring an adapter that works with their device and supports display port out (ie: USB-C to Display port, or USB-3 to Display port)
- Competitors may use either a desktop or laptop computer. No more than two monitors may be used, including a laptop screen.
- Other than operating software, no files are permitted on the desktop or laptop. Files must be removed prior to the competition orientation.
- Competitors are required to use Autodesk Revit software to prepare their drawings. Internet access only provided to access and operate software. No other internet usage/access will be permitted.

- Skills Canada volunteers will not provide technical assistance for competitor hardware or software.
- No internet access will be provided or permitted during competition
- Competitors preferred software must be capable of printing or exporting to a PDF file, using installed PDF creation software (ie. Adobe PDF writer)
Competitors are to ensure PDF creation software is installed and tested prior to competition time. Refer below to contest specific rules.
- If competitors are bringing a computer supplied by their school (instead of their own personal computer), their user account must have administrator-level access for the duration of the competition in the event that specific system folders or files need to be accessed to permit the install of software or driver updates or access settings to troubleshoot issues.
- Latest edition of the National Building Code of Canada. No other technical references will be permitted during the competition. Hard copy or PDF version is permitted.
- Scales (metric and imperial)
- Calculator (competitors may not use their smartphone calculator during the competition, however they may access a calculator application on their computer if necessary).
- Pencil
- Paper
- Software reference manuals, textbooks and electronic data are not permitted.

4.3 Required clothing provided by the competitor.

No specific requirements. However, we recommend the following:

- Ear plugs
- Noise cancelling headphones and/or
- Ear buds for music

5 HEALTH AND SAFETY

5.1 Safety program

SCC has implemented a comprehensive safety program as health and safety is an integral part of our competitions. Our safety program includes guidelines and procedures to make the work environment in each skill area safer.

5.1.1 Safety manual

As part of our program a safety manual has been created to monitor and document health and safety within each skill area. It includes a definite plan of action designed to prevent accidents. The safety manual will be provided for every skill and these instructions must be followed and respected by all participants and officials at the SCNC.

5.1.2 Safety workshop

During orientation, 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 required to undertake a second safety workshop, this will not affect the Competitor's competition time.

5.2 List of required personal protective equipment (PPE) provided by Skills/Compétences Canada

- No PPE required

6 ASSESSMENT

6.1 Point breakdown

Note: This list is subject to change.

TASKS	/100
Day 1 – Presentation Drawings, Building Code and/or Working Drawings	50
Day 2 – Presentation Drawings, Building Code and/or Working Drawings	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 the competitor orientation.

TOPIC/TASK	CONTEST SPECIFIC RULE
Computer usage	<ul style="list-style-type: none"> • Computers must be brought to Orientation for set up. The computers must remain onsite from Orientation to the conclusion of the competition. • The competitor is required to ensure that their computer only contains software application files. No electronic files are permitted to be brought into the competition. All files must be removed prior to Orientation. • Failure to comply with this rule will result in disqualification.
Use of technology - Internet	<ul style="list-style-type: none"> • There will be no access to the Internet during the competition. • Internet access only provided to access and operate software. No other internet usage/access will be permitted.

	<ul style="list-style-type: none"> Failure to comply with this rule will result in disqualification.
Hardware & Software	<ul style="list-style-type: none"> Only default software libraries, families, blocks, and components are permitted to be used during the competition. Failure to comply with this rule will result in disqualification. NTC Members will verify compliance during Orientation. All software must be installed and operational prior to the beginning of competition. <p>Malfunction of Software/Hardware</p> <ul style="list-style-type: none"> Technical support for software will not be provided during the competition. Competitors are assumed to be knowledgeable in their chosen software and should have full working knowledge of its capabilities. If your hardware/software malfunctions you will be provided the equivalent down time to complete the competition up to a maximum of 60 minutes per day. Subject to NTC discretion.
Use of Resource Materials	<ul style="list-style-type: none"> The only resource permitted is the National Building Code of Canada. Failure to comply with this rule will result in disqualification.
Use of technology	<p>Mobile phones and music</p> <ul style="list-style-type: none"> MP3 players or cell phones on airplane mode are permitted during the competition to listen to music provided the competitor wears headphones or earbuds. During the competition, competitors are not permitted to use their cell phones for calling, texting, or accessing the internet. Failure to comply with this rule will result in disqualification.
Washroom breaks	<ul style="list-style-type: none"> Washroom breaks are at the discretion of the competitor. Additional time will not be provided for washroom breaks. The competitor must notify an NTC member when leaving the competition site. Cell phones must remain at the competitor's

	workstation when they leave for washroom breaks.
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8 ADDITIONAL INFORMATION

8.1 Interpreter

If a competitor requires the help of an interpreter once onsite during the competition, 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 may not be guaranteed.

8.2 Ties

- Tiebreaker #1: In the event of a tie, the competitor with the highest score in the Building Code analysis component of the test will be declared the winner.
- Tiebreaker #2: If a tie still exists at this point, the competitor with the highest score in the Floor Plan(s) (day 1) Component of the test will be declared the winner.
- Tiebreaker #3: If a tie still exists at this point, the competitor with the highest score in the Construction Detail (day 2) component of the test will be declared a 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

Refer to the competition rules of the Skills Canada National Competition which can be found on our website.

9 NATIONAL TECHNICAL COMMITTEE MEMBERS

MEMBER ORGANIZATION	NAME
Newfoundland and Labrador	Mike Foley – Co-Chair
Prince Edward Island	Bruceyene Collins
Quebec	To be confirmed
Ontario	Joel Foster – Chair
Manitoba	Ralph Lata
Saskatchewan	Ashley Graf
Alberta	Jacob Waldbillig
British Columbia	Kelly Wightman

Contact the Skills/Compétences Canada national secretariat for any questions or concerns: Nathalie Maisonneuve (nathaliem@skillscanada.com).