

CONTEST DESCRIPTION
DESCRIPTION DE CONCOURS

ARCHITECTURAL TECHNOLOGY & DESIGN
DESSIN ET TECHNOLOGIE ARCHITECTURALE
POST-SECONDARY
NIVEAU POSTSECONDAIRE

CONTINUOUS LEARNING



FORMATION CONTINUE

DIGITAL



COMPÉTENCES NUMÉRIQUES

DOCUMENT USE



UTILISATION DE DOCUMENTS

NUMERACY



CALCUL

ORAL COMMUNICATION



COMMUNICATION ORALE

READING TEXT



LECTURE

WORKING WITH OTHERS



TRAVAIL D'ÉQUIPE

WRITING



RÉDACTION

THINKING



CAPACITÉ DE RAISONNEMENT

1. The Importance of 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. This will be piloted in a number of areas for 2016 with full implementation in the 2017 Skills Canada National Competition.

This is part of an ongoing initiative that requires the integration and identification of Essential Skills in contest descriptions, projects, and project documents. Essential skills are used in nearly every job and at different levels of complexity. They provide the foundation for learning all other skills and enable people to evolve with their jobs and adapt to workplace change. Good Essential Skills means you will understand and remember concepts introduced in technical training. The level of Essential Skills required for most trades is as high or higher than it is for many office jobs. 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 Purpose of the Challenge

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

To assess the competitors' abilities to apply the following key themes:

- Architecture - envelope design, space planning, materials selection, an awareness of environmental sustainability concepts and the application of accessibility design standards and the National Building Code.
- Engineering - awareness of structural framing layouts; awareness of building mechanical and electrical systems integration
- Construction - regulatory standards (eg. construction standards) and construction assemblies

2.2 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 drawings.
- Knowledge of Computer Aided Design Drafting (CADD) required – (A working understanding of Paper Space Layouts, Xrefs, etc., will be an asset).
- Knowledge of detailing, planning concepts and space relationships.
- Knowledge of basic building Mechanical & Electrical systems and their integration into the building.
- Code interpretation and application - National Building Code of Canada
- Drawing Standards - sheet layout, adherence to industry drawing standards, proper use of scales and symbols. Articulation of drawings to a professional standard. 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
Test Project	April, 2016

3.2 Tasks that may be performed during the contest

- Pre-requisites
 - Preparation of Working Drawings
 - CADD⁹
 - Planning and design concepts⁸
 - Detailing and sketching skills⁷
 - Basic building Mechanical & Electrical systems⁷

Essential Skills - ¹Numeracy, ⁷Thinking (Job Task Planning & Organizing), ⁸Document Use, ⁹Digital

4. EQUIPMENT, MATERIAL, CLOTHING

4.1 Equipment and material provided by Skills/Compétences Canada

- Windows compatible hardware
- AutoDesk 2015 Products (AutoCAD, AutoCAD Architecture, Revit)
- Laser printer (11x17) and/or plotter

4.2 Equipment and material provided by the competitor

- If alternate software is desired, it will require approval by the National Technical Committee a minimum of 1 month prior to the competition.
- Latest edition of the National Building Code
- 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

Note: MP3 players (not cell phones) are permitted during competition provided the volume is not disruptive to other competitors.

4.3 Required clothing (Provided by competitor)

- N/A

5. SAFETY REQUIREMENTS

5.1 List of required personal protective equipment(PPE) provided by competitors

- No PPE required

6. ASSESSMENT

6.1 Point breakdown

POINT BREAKDOWN	/100
Day 1	
• Floor Plan(s)	15
• Elevation(s)	10
• Cross Section(s)	5
• Wall Section(s)	10
• Construction Detail(s)	10
Day 2	
• Construction Detail(s)	30
• Partial Plan & Section	10
• Partial Plan & Section	10

7. ADDITIONAL INFORMATION

7.1 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.

7.2 Software requirements

If French software is required 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 software might not be guaranteed.

7.3 Computer keyboard requirements

English Keyboards will be provided, if a French keyboard is required 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 keyboard might not be guaranteed.

7.4 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.

7.5 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 Judges will re-evaluate the set of working drawings for the two competitors.

7.6 Competition Rules

Please refer to the competition rules of the Skills Canada National Competition.

8 NATIONAL TECHNICAL COMMITTEE MEMBERS

Member Organisation	Name	Email address
Alberta	Mehdi Zahed	
Manitoba	Scott Fraser	
Ontario	David Wray	
Quebec	Francis Tremblay	
Prince Edward Island	Bruceyene Collins	
Newfoundland and Labrador	Dawn Greening	
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