

CONTEST DESCRIPTION  
DESCRIPTION DE CONCOURS

**ARCHITECTURAL TECHNOLOGY & DESIGN**  
**DESSIN ET TECHNOLOGIE ARCHITECTURALE**  
**SECONDARY**  
**NIVEAU SECONDAIRE**

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:

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

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, and CWFHC handbook
- Engineering - structural systems, spans, basic mechanical and electrical systems integration.
- Construction - regulatory building codes, assembly

### 2.2 Duration of contest.

12 hours

**2.3 Skills and Knowledge to be tested.**

Computer Aided Design Drafting (CADD) and sketching techniques. The contestant will be challenged with interpreting instructions, reading and developing sketches, and/or specifications for a residential or a commercial building project.

**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 documents will be release prior to the competition	

**3.2** Tasks that may be performed during the contest

- CADD<sup>9</sup>
- Planning and design concepts<sup>7</sup>
- Measuring/scaling, detailing and sketching skill<sup>1</sup>
- Basic building Mechanical & Electrical systems
- Wood frame construction
- Presentation skills
- Handicap Accessibility regulations from CMHC Book<sup>8</sup>

*Essential Skills – <sup>1</sup>Numeracy, <sup>7</sup> Thinking, <sup>8</sup> Document Use, <sup>9</sup>Digital*

**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 prior approval by the National Technical Committee minimum 1 month before the competition. Software must be supplied by Competitor and used on computers supplied by Skills (no use of personal computers)
- CMHC Wood-Frame Construction handbook will be permitted. (Digital or Hardcopy)
- Scales (metric and imperial)
- Calculator
- Pencil
- Paper
- Empty USB Drive
- Software reference manuals, Textbooks and Electronic data (e.g. CD or diskette) will not be permitted

**Notes:** 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
First Floor Plan - Working Drawing	15
Second Floor Plan - Presentation Drawing	10
Front Elevation - Working Drawing	10
Rear and Side Elevation - Presentation Drawings	10
Section / Detail - Working Drawing	5
Site Plan - Presentation Drawing	10
Partial Floor Plan - Presentation Drawing	15
Front, Rear and Side Elevation - Presentation Drawings	15
Garage Floor Plan - Presentation Drawing	5
Front Elevation (Garage) - Presentation Drawing	5

## 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 judges will re-review the submitted package and re-score to declare the winner.

### 7.6 Competition Rules

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

## 8 NATIONAL TECHNICAL COMMITTEE MEMBERS

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