

Skills Canada National Competition

SCOPE DOCUMENT	
Competition Year	2012
Competition location	Edmonton, AB
Trade Number	52
Trade Name	Architectural Technology and Design
Level	Post-Secondary

1. INTRODUCTION

1.1 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 National Building Code research.

Engineering - structural determination (e.g. identify major loads); building mechanical and electrical systems integration

Construction - regulatory standards, assembly, maintainability, environmental sustainability

1.2 Duration of contest.

12 hours

1.3 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 a residential or commercial building project. Need knowledge of CADD experience – (A working understanding of Paper Space Layouts, Xrefs, etc., will be an asset). Detailing and sketching skills. Planning concepts, space relationships. Basic building M&E systems and their integration into the building. Presentation skills - sheet layout, use of scale and symbols.

Code interpretation - National Building Code of Canada only:

- 600 square meters or less in size
- commercial or residential in nature to include concrete, masonry, metals, and heavy timber construction types

2. CONTEST DESCRIPTION

2.1 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	

2.2 Tasks that may be performed during the contest

- Pre-requisites
 - CADD
 - Planning and design concepts
 - Measuring, detailing and sketching skill
 - Basic building M&E systems
 - Wood frame construction
 - Presentation skills

3. EQUIPMENT, MATERIAL, CLOTHING

3.1 Equipment and material provided by Skills/Compétences Canada

- Windows compatible hardware
- AutoCAD 2012, AutoCAD LT, Architectural Desktop 2012, Revit 2012,
- Laser printer (11x17)

3.2 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.
- No software reference manuals, textbooks or electronic data (e.g. CD or diskette), will be permitted for the duration of the competition.
- CMHC Wood-Frame Construction handbook will be permitted.
- National Building Code
- Scales (metric and imperial)
- Calculator
- Pencil
- Paper.

3.3 Required clothing (Provided by competitor)

- n/a

4. SAFETY REQUIREMENTS

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

- No PPE required

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

- No additional PPE will be supplied by SCC

5. ASSESSMENT

5.1 Point breakdown

POINT BREAKDOWN	/1000
Presentation	300
Accuracy of drawing	200
Compliance to standards	200
Solution	200
Others	100

6. ADDITIONAL INFORMATION

6.1 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.

6.2 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.

6.3 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.

6.4 Tie (No ties are allowed)

In the event of a tie in scoring, the tie will be broken by the judges' re-evaluation of the relevant documents for the tied competitors. If necessary, the electronic file(s) will be evaluated for the level of mastery of the software.

6.5 Competition rules

Please refer to the competition rules for all general SCNC information.

7. NATIONAL TECHNICAL COMMITTEE MEMBERS

Region	Name	Email address
Pacific Region	Lloyd Bloomfield	lbloomfi@epsb.ca
Western Region	Greg Wheler	wheler@saiat.sk.ca
Ontario	David Wray	wrayd@hotmail.com
Atlantic Region	Dawn Greening	dawn.greening@cna.nl.ca