

Contest Description

COMPETITION DATE: April 26-30 (to be determined)	CONTEST AREA NAME: Architectural Technology and Design
CONTEST AREA NUMBER #: 52	LEVEL: Post-Secondary
DURATION OF CONTEST: 6 hours	LOCATION: CNA - RR

CONTEST INTRODUCTION

Purpose of the Challenge.

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

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

Architecture – envelope design, space planning, materials selection, and National Building Code research.

Engineering – structural determination (eg. Identify major loads); building mechanical and electrical systems integration.

Construction – regulatory standards, assembly, maintainability, environmental sustainability.

Skills and Knowledge to be tested.

The contestant will be tested on interpreting instructions, reading and developing a commercial or residential building project with emphasis on the use and understanding of the National Building Code, design and detailing practices; as well as their skills in Computer Aided Design Drafting (CADD) and/or Building Information Modeling (BIM) and sketching techniques. A working knowledge 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.

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.

CONTEST DESCRIPTION

Tasks that may be performed during the contest

Pre-requisites

- CADD/BIM
- Planning and design concepts
- Measuring, detailing and sketching skills
- Basic building M&E systems
- National Building Code of Canada
- Building Construction
- Presentation skills

EQUIPMENT, MATERIAL, CLOTHING

Equipment and Material supplied by Skills Canada-Newfoundland and Labrador

- Printer/plotter.

Equipment and Material Competitor must supply:

- 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 electronic storage devices), will be permitted for the duration of the competition.
- CMHC Wood-frame Construction handbook will be permitted.
- Only electronic storage devices submitted to the contestant during the contest will be authorized for use.
- Windows compatible hardware
- CAD/BIM software
- PDF software
- National Building Code.
- Scales (metric and imperial).
- Calculator.
- Pencil.
- Paper.

SAFETY REQUIREMENTS

The health, safety and welfare of all individuals involved with Skills Canada NL are of vital importance. Safety is a condition of participation and shall not be sacrificed for the sake of expediency. At the discretion of the judges and technical committees, any competitor can be denied the right to participate should they not have the required proper safety equipment and/or act in an unsafe manner that can cause harm to themselves or others.

- COVID-19 face covering while traveling to and from workstation (if held at RR campus).

EVALUATION/JUDGING CRITERIA

Point breakdown

POINT BREAKDOWN	/1000
Presentation	300
Accuracy of drawing	200
Compliance to standards	200
Solutions	200
Other	100

ADDITIONAL INFORMATION

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.

Competition rules

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

PROVINCIAL TECHNICAL COMMITTEE MEMBERS

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