



## 2012 15<sup>th</sup> ANNUAL SKILLS MANITOBA COMPETITION CONTEST SCOPE

**CONTEST NAME:** Architectural Technology and Design

**CONTEST NO:** 52

**LEVEL:** Secondary – maximum 12 competitors

**CONTEST LOCATION:** Rooms J121/123 Red River College - Notre Dame Campus

**CONTEST DURATION AND START TIME:**

**4 hours**, immediately after the opening ceremonies.

**PURPOSE OF CHALLENGE:**

Assess the contestant's skills in performing **design and drawing** tasks.

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

Architecture - envelope design, space planning, and materials selection.

Engineering - structural systems and spans.

Construction - regulatory building codes, assembly, and use of drawing tools.

**SKILLS AND KNOWLEDGE TO BE TESTED:**

Computer Aided Design Drafting (CADD) and sketching techniques. The contestant will be challenged with interpreting instructions, working with scales or other measuring devices, reading and developing sketches, and developing presentation, and/or working drawings for a small scale residential building project.

Student design and drawings will adhere to Section 9 of the National Building Code.

**ASSESSMENT: POINT BREAKDOWN (1000 POINTS):**

*In the event of a tie in scoring, the tie will be broken by the judge’s re-evaluation of the relevant documents of the tied competitors.*

Technical Drawings (design/presentation)	300
Accuracy of drawing	200
Compliance to standards	200
Design Concept	200
Others (Sketch, etc.)	100

**NATIONAL COMPETITION ELIGIBILITY:**

- A mark of **70% or higher** must be scored by the gold medalist in order to attend the National Skills Competition

**EQUIPMENT, TOOLS, MATERIALS TO BE PROVIDED BY COMMITTEE:**

The organizing committee will provide the following:

- Windows compatible hardware loaded with Autodesk **AutoCAD 2012, AutoCAD Architecture 2012, and Revit Architecture 2012.**
- Laser printer (11x17)

No software reference manuals, textbooks (other than the CMHC book listed below) or electronic data, will be permitted for the duration of the competition.

Only drawing files submitted to the contestant during the contest will be authorized for use.

**EQUIPMENT, TOOLS, MATERIALS TO BE SUPPLIED BY COMPETITOR:**

The competitor will provide the following:

- Scales (metric and imperial)
- Calculator
- Pencil and paper
- CMHC “Canadian Wood-Frame House Construction” book.
- New or formatted USB Flash Memory Stick (No electronic files permitted)

**WORKSITE SAFETY RULES / REQUIREMENTS:**

N/A

**TECHNICAL COMMITTEE MEMBERS CONTACT INFORMATION:**

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