



2010 13th ANNUAL SKILLS MANITOBA COMPETITION CONTEST SCOPE

CONTEST NAME: Architectural Technology and Design

CONTEST NO: 52

LEVEL: Secondary

CONTEST LOCATION: Red River College - Notre Dame Campus

CONTEST START TIME AND DURATION:
3 hours, immediately after the opening ceremonies.

PURPOSE OF CHALLENGE:

Assess the contestant's skills in performing **design and drawing** tasks using Computer Aided Drafting and Design (CADD):

SKILLS AND KNOWLEDGE TO BE TESTED:

The contestant will be challenged with interpreting instructions, reading preliminary sketches and specifications, and creating sketches, 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.

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.

ACCURACY OF DRAWINGS

- Technical working drawing content
- Dimensioning to Architectural conventions
- Annotation
- Overall Drawing Scale(s)
- Relative Drawing Element Scale(s)

COMPLIANCE TO STANDARDS

- National Building Code
- Relevant Standards

CADD UTILIZATION

- Layers structure
- Appropriate Linetypes, Lineweights, Colours
- Text and Dimension Styles
- Layouts
- Xrefs and blocks

SOLUTION

- Completeness
- Elegance
- Economics
- Simplicity
- “Best fit to problem”
- Viability
- Sustainability

EQUIPMENT, TOOLS, MATERIALS TO BE PROVIDED BY COMMITTEE:

The organizing committee will provide the following:

- Windows compatible hardware loaded with Autodesk **AutoCAD 2010** and **Architecture 2010**.
- There will be a printer supplied on site for use by contestants and for judging purposes.

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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