



Provincial Scope Document

ARCHITECTURAL CAD (Post Secondary) 2009

Contest Length: 3 hrs

Check in time: 12:30

Contest Start: 13:00

Purpose of the Challenge:

To evaluate each contestant's preparation for employment in the field of Architectural Drafting and Design using CAD, and to recognize outstanding students for excellence and professionalism in their field.

Skills & Knowledge to be Tested:

Understand and use fundamental commands for producing a scaled CAD drawing, utilizing 2D commands such as:

- * Proper use of Basic, Draw, Edit, Text, Blocks and Dim commands
- * Setting variables including Units, Limits, Text Styles, Layers, Line types and Dim Styles
- * Ability to import files and blocks
- * Ability to plot to a specified scale

Understand and use written instructions regarding drawing Scale, Standards and Design Criteria.
Demonstrate ability to produce legible freehand sketches for planning purposes

The competition may consist of drawing Floor Plans, Elevations, Sections, Site and Roof Plans
Drawings must be drawn with appropriate material sizes and appropriate symbols.

Understand and use the BC Building Code and basic wood frame construction theory.

Correct use of basic Architectural Drafting and Design standards

Specific Requirements:

*All software packages will be original versions
No add-on applications will be allowed*

Equipment / Tools / Materials:

Supplied by Committee:

Hardware:

Compatible Pentium type microcomputers (IBM compatible) fitted with SUPER VGA monitors and a three-button mouse (if available).

Software:

AutoCAD 2009 or equivalent. Should other software packages or platforms be required, the contestant and their mentors are responsible to provide systems support in order to complete the project as specified. The alternate software will require prior approval of the committee to allow adequate preparation time.

No software reference manuals, textbooks or electronic data or external storage devices will be permitted for the duration of the competition. However, the BC Building Code and the CMHC Wood-Frame Construction handbook will be permitted.

Supplied by Contestant:

Calculator

Scale

Notepad

Pen / Pencil

BCBC

CMHC Wood-Frame Construction

Judging / Distribution of Marks:

Preliminary judging, based primarily on completeness, will determine six finalists. These finalists will be judged according to final judging criteria to select 1st, 2nd and 3rd place winners. Distribution of marks will apply only to six semi finalists

Preliminary Judging Criteria:

Completeness (75% of model complete, Plotted, Dimensioned, Title Blocks and Border)
Presentation (Orientation, appropriate line weights and line types, Appropriately detailed)

Final Judging Criteria:

Application of CAD skills (Layers, Text and Dim Styles, Ltscale, etc.)
Adherence to Graphic Standards (Architectural Drafting Conventions, Dimensioning, Referencing, etc.)
Accuracy of Construction Details and Specification Annotation (as required by BC and wood frame construction practices)
Presentation (overall appearance, placement of details, clarity, sketch quality)
Degree of Completion (submission of all aspects of assignment)
Design Consideration (Floor Plan Layout, standard clearances and sizes, etc.)

Technical Committee:

Tricia Thomson Technical Chair

Tricia.Thomson@ufv.ca

Gold medal winners at the BC Skills Competition are eligible to compete at the Canadian Skills Competition May 20-23, 2009 2009, Charlottetown, PEI.

Skills Canada BC reserves the right to make changes to the scope document. Please check the website for updates.