

SKILLS CANADA SASKATCHEWAN PROVINCIAL COMPETITION SCOPE

Architectural CADD Post Secondary Level

SCHEDULE & LOCATION:

6 hour exam plus half hour lunch break, bring a bag lunch

Competition: Tuesday 16MAR2004 at SIAST Palliser Campus, 9:00am-12:00, 12:30pm-3:30

Awards Luncheon: Saturday 27MAR2004 in Prince Albert (meal is included as part of registration fee)

SKILLS AND KNOWLEDGE TO BE TESTED

Computer Aided Design and Drafting techniques

The contestant will be challenged in, interpreting instructions, reading and developing plans, and reading and interpreting architectural and construction specifications for either a residential or a commercial building.

RATIONALE

- Parts 1,2, 9, and some parts of NBC Part 3, Parts of the code applicable to the *scope of practice* of a technologist without professional intervention.
- 600 square meters or less in size
- commercial or residential in nature to include concrete, masonry, metals, and heavy timber construction types

The key themes covered will be

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

Engineering - structural analysis, spans, building mechanical and electrical systems integration

Construction - regulatory building codes, assembly, longevity, sustainability

PRE-REQUISITES

CADD experience – (A working understanding of Paper Space Layouts, Xrefs, etc., will be an asset.)

Detail and sketching skill

Code interpretation - National Building Code of Canada only

Planning concepts, space relationships,

Basic building M&E systems and their integration into the building

Presentation skills - sheet layout, use of scale and symbols

EQUIPEMENT, TOOLS, SUPPLIES, CLOTHING

The organizing committee will provide the following:

Windows compatible hardware loaded with AutoDesk AUTOCAD R2002 & R2004 and ARCHITECTURAL DESKTOP R3.3 software. Should other software packages or platforms be desired, the contestant is responsible for providing system support 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 e.g. CD, diskette, will be permitted for the duration of the competition however, Codes will be permitted.

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

There will be a color plotter supplied on site for use by contestants and for judging purposes.

The competitor will provide the following: National Building Code, scales (metric and imperial), calculator, pencil and paper.

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EVALUATION CRITERIA

PRESENTATION

Layout
Line weights
Organization
Letter style
Readability & Clarity

ACCURACY of DRAWING

Technical working drawing content
Dimensions
Line types
Annotation
Material indication hatching
Proper use of standard symbols

WORK ORGANIZATION

Layout of solutions
Comprehensiveness

COMPLIANCE to STANDARDS

Structural analysis
Electrical and mechanical integration

SOLUTION

Concept
“Best fit to problem”
Viability

OTHER

Completeness