

2005 Provincial Skills Competition

Scope Document

EVENT: ARCHITECTURAL CADD	LEVEL: POST SECONDARY
START TIME: 9:00 AM, APRIL 8, 2005	LOCATION: SIAST PALLISER CAMPUS RM. 4.113
INTERNATIONAL TRADE #: 52	DURATION: 6HRS.

PURPOSE OF THE CHALLENGE:

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 an dconstruction 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, and 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

EQUIPMENT, TOOLS, SUPPLIES, CLOTHING:

Committee Will Provide:

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 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.

Competitor Must Provide:

National Building Code, scales (metric and imperial), calculator, pencil and paper.

JUDGING CRITERIA:

PRESENTATION	WORK ORGANIZATION
Layout	Layout of solutions
Line weights	Comprehensiveness
Organization	
Letter style	COMPLIANCE TO STANDARDS
Readability & Clarity	Structural analysis
	Electrical and mechanical integration
ACCURACY OF DRAWING	
Technical working drawing content	SOLUTION
Dimensions	Concept
Line types	“Best fit to problem”
Annotation	Viability
Material indication hatching	
Proper use of standard symbols	OTHER
	Completeness

COMMITTEE MEMBERS:

Greg Wheler

SIASST Palliser Campus, Moose Jaw