

2005 Provincial Skills Competition

Scope Document

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| EVENT: ARCHITECTURAL CADD | LEVEL: SECONDARY |
| START TIME: 8:30AM April 8, 2005 | LOCATION: SIAST PALLISER CAMPUS Rm: 4.113 |
| INTERNATIONAL TRADE #: 52 | DURATION: 6 HOURS |

PURPOSE OF THE CHALLENGE:

To evaluate each competitor’s level of preparation in the field of Architectural Drafting and Design using CADD, and to recognize outstanding students for excellence in their field.

SKILLS AND KNOWLEDGE TO BE TESTED:

The challenge will consist entirely of practical Design/Drafting work.

- Understand and use CADD to develop architectural designs/drawings, utilizing 2D commands.
- Understand and use written instructions for all drawings at a specified scale.
- Understand and use technical construction practices in solving problems encountered.

THEORY EXAM: - None

Aspects to be tested:

- The competition **may** consist of drawing plot plans, floor plans, elevations, sections, and details.
- Students **will be** expected to use layers, color, varied line types, and different line weights.
- The students **are expected** to be able to use a scale (either metric and imperial) to complete their drawings. The student may choose to use either Imperial or metric measurements.

Equipment, Tools, Supplies, Clothing:

Supplied by Committee

- Each competitor is restricted to a tabletop workspace.
- Pentium PC workstation running Windows NT.

Supplied by Competitor

- Scratch paper, pens, pencils, etc.
- Competitors may wear earplugs or a “walkman” to help isolate themselves from external noise and distractions.
- Imperial and Metric measuring scales.
- Personal calculator.
- The student **may** use a copy of Canadian Mortgage and Housing Corporation (CMHC) book “Canadian Wood-Frame House Construction” as a reference manual.

Software:

- AutoCAD 2004 will be available on the Palliser, SIAST Campus Supplied equipment.
- Other CAD software may be used with the approval of the Technical Committee. If approved, the competitor is responsible for loading the software prior to the competition and deleting the software upon conclusion of the competition.
 - Blocks for standard architectural symbols or symbols contained within the software program may be used.
 - All software packages must be original registered versions.
 - No add-on applications will be allowed.
 - Use of software manuals and other reference materials **will not** be permitted during the competition.

CLOTHING REQUIREMENTS:

No special clothing requirements.

JUDGING CRITERIA:

The students are to be evaluated on their use and practical knowledge of the following:

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| • Architectural Conventions | 30% |
| • Construction practices and technical content | 50% |
| • Creativity | 20% |

Note to Instructors:

- The National Committee requires all competitors to have their own copy of Canadian Mortgage and Housing Corporation (CMHC) book "Canadian Wood-Frame House Construction" as a reference manual. This resource is built upon the National Building Code. The Provincial exam will require that the students **have** and **use** their copy during the practical exam. The exam will have sections/questions that this resource will help to answer. All drawings will have to follow the codes/building technology contained within this resource.

COMMITTEE MEMBERS:

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| Lorne Shead, | Robert Usher Collegiate, Regina, Sk. |
| Kevin Heinemann, | Winston Knoll Collegiate, Regina, Sk |