

2012 Provincial Skills Competition

Scope Document

EVENT: ARCHITECTURAL TECHNOLOGY & DESIGN	LEVEL: SECONDARY
START TIME: TBD	LOCATION: Regina
INTERNATIONAL TRADE #: 52	DURATION: 6 HOURS

PURPOSE OF THE CHALLENGE:

To evaluate each competitor’s knowledge and skill level in the field of Architectural Drafting and Design using CADD, and to give recognition to those students who excel in this chosen field.

SKILLS AND KNOWLEDGE TO BE TESTED:

The challenge will consist of practical Design/Drafting exercises that test your:

- Understanding and use of CADD to develop architectural designs and drawings, utilizing basic 2D commands.
- Understanding and ability to follow written instructions to produce drawings at a specified scale.
- Understanding of typical construction practices to be used in solving technical problems encountered.

Aspects to be tested:

- Competitors will be expected to setup a drawing file with assigned Units, Limits, Layers (color, line type and line weights) and Dimension Styles.
- Competitors will be required to create any combination of plot plans, floor plans, elevations, sections, and details.
- Competitors will be expected to set up their work using various scales to complete their drawings. The competitors may choose to use imperial or metric measurements.

EQUIPMENT, TOOLS, SUPPLIES:

Supplied by Committee

- Each competitor is restricted to a tabletop workspace.
- PC workstations.

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/or 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 and REVIT (recent version) will be supplied.

- Blocks for standard architectural symbols or symbols contained within the software program may be used.
- All software packages will be original registered versions.
- No add-on applications will be allowed.
- Use of software manuals and other reference materials not specified above will not be permitted during the competition.

JUDGING CRITERIA:

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

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| • Architectural Drafting Conventions | 30% |
| • Construction practices and technical content | 50% |
| • Accuracy of Solution | 20% |

NOTE TO INSTRUCTORS:

- The Skills Saskatchewan Technical 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.
- Orientation will be held in the morning 15 minutes prior to the competition.

COMMITTEE MEMBERS:

Greg Wheler SIAST Palliser Campus Moose Jaw, SK wheler@siastr.sk.ca