



# 28<sup>th</sup> ANNUAL SKILLS MANITOBA COMPETITION

## CONTEST SCOPE

April 9, 2026

### CONTEST DETAILS

- **Contest Name:** Architectural Technology and Design
- **Level:** Secondary
  - Maximum of two competitors per school.
  - Actual number of competitors per school may be reduced if room capacity is exceeded.
- **Contest Location:** Room T230B - Red River College Polytech - Notre Dame Campus – Skilled Trades and Technology Centre
- **Contest Duration and Start Time:** 4 hours, beginning at 8:30 AM following registration. Competitors meet in room T230B.

### CONTEST INTRODUCTION

- **Purpose of the Challenge**

To assess the contestant's skills in performing technical design and drawing tasks, and their preparation for employment in the field of Architectural Technology.
- **Skills & Knowledge to be Tested**

The contestant's understanding of specifications and instructions and their ability to read and produce a set of working drawings for residential design adhering to Section 9 of the National Building Code. The contestant's ability to use CAD software to complete technical design and drawing tasks with regards to the key themes:

  - **Architecture** – Envelope design, space planning, and materials selection.
  - **Engineering** – Structural systems and spans.
  - **Construction** – Regulatory building codes, assembly, and use of drawing tools.

## CONTEST DESCRIPTION

Tasks may be altered slightly prior to the competition. Contestants should be prepared with any skills required to meet the criteria in the “Contest Introduction”.

- **Task**
  - Provided a partial set of working drawings of a residential building in either digital, printed or PDF format, contestant will be asked to make modifications and/or additions to the existing structure and present their solution.
  - Contestant will develop their own technical drawings (specific drawing sheets will be requested) using BIM / CAD software.
  - Contestant will submit their drawings in either printed or PDF format (this will be announced at the competition).

## ASSESSMENT: POINT BREAKDOWN (100 POINTS)

In the event of a tie in scoring, the tie will be broken by the judge’s re-evaluation of the relevant documents of the tied competitors.

- **Task 1 (60 Points)**
  - **Design Solutions (20 pts)**
    - Meet specifications, requirements, and are realistic and buildable.
  - **Technical Drawings (40 pts)**
    - Accurate, complete, and to drafting standards.
- **Task 2 (40 Points)**
  - **Presentation Drawings (20 pts)**
    - Accurate, complete, and to drafting standards.
  - **Visualization (20 pts)**
    - High design quality and visual appeal with strong reflection of design scheme.

## NATIONAL COMPETITION ELIGIBILITY

- A mark of 70% or higher must be scored by the gold medalist in each contest in order for them to attend the National Skills Competition.

## EQUIPMENT, TOOLS & MATERIALS

- **To be Provided by the Committee:**
  - Windows compatible hardware complete with Autodesk AutoCAD 2023, AutoCAD Architecture 2023, and Revit Architecture 2023
  - A printed copy, or PDF, of the competition instructions and documents.

- Only files submitted to the contestant during the contest will be authorized for use.
- There will be no on-site laser printer provided for use by contestants and for judging purposes. Architectural competitors will submit electronic PDF files for evaluation. o No software reference manuals, textbooks or electronic data will be permitted for the duration of the competition (see exceptions below).
- **To be Provided by the Competitor:**
  - Architectural Scale (imperial) and Ruler (6" and/or 12" in metric and imperial)
  - Calculator
  - Pencil and sketch paper
  - CMHC "Canadian Wood-Frame House Construction" reference (Printed or digital version). If using a digital version, it must be available offline.
  - Empty USB Flash Memory Stick. (No electronic files permitted other than the "Canadian WoodFrame House Construction" digital version.)

**Note:** If the competitor wishes to use software other than that outlined within this scope, the competitor and coach mentor must contact the competition Chairperson no later than the official registration date outlined by Skills Manitoba for approval. If approved, the competitor may be required to bring their own software support (installation, licensing, printing, networking, etc.).

## **WORKSITE SAFETY RULES / REQUIREMENTS**

- No PPE required. Additional safety rules and requirements will be provided on site.

## **THE IMPORTANCE OF SKILLS FOR SUCCESS FOR CAREERS IN THE SKILLED TRADES AND TECHNOLOGY;**

In response to the evolving labor market and changing skill needs, the Government of Canada has launched the new Skills for Success (former Essential Skills) model defining nine key skills needed by Canadians to participate in work, in education and training, and in modern society more broadly. SCC is currently working with Employment and Social Development Canada (ESDC) to bring awareness of the importance of these skills that are crucial for success in Trade and Technology careers. Part of this ongoing initiative requires the integration and identification of the Skills for Success in contest descriptions, projects, and project documents. The following 9 skills have been identified and validated as key skills for success for the workplace: 1.Numeracy, 2.Communication, 3.Collaboration, 4.Adaptability, 5.Reading, 6.Writing, 7.Problem Solving, 8.Creativity and Innovation, 9.Digital

## **FOR MORE INFORMATION PLEASE CONTACT:**

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