2026 Provincial Skills Canada Competition

Contest Description
Edmonton Expo Centre, Edmonton
May 6 & 7, 2026

EVENT: Architectural Technology and Design	**LEVEL:** Secondary
WORLDSKILLS TRADE #: 52	**LOCATION:** HALL E, Edmonton Expo Centre, Edmonton
DURATION: 14.00 hours (two days, including breaks) 6.50 working hours on day 1 4.50 working hours on day 2	**EQUIPMENT DROP OFF, SET-UP AND TESTING MAY 5:** 4:00PM – 5:30PM

COMPETITION SCHEDULE:

Day 1 - May 6:

ORIENTATION	7:45 AM – 8:00 AM
CONTEST REVIEW, Q&A	8:00 AM – 8:30 AM
COMPETITION BEGINS	8:30 AM
LUNCH	11:30 AM - 12:30 PM
COMPETITION ADJOURNS	4:00 PM

Day 2 - May 7:

ORIENTATION	7:45 AM – 8:00 AM
COMPETITION RESUMES	8:00 AM
LUNCH	11:30 AM - 12:30 PM
COMPETITION ENDS	1:30 PM
CLOSING CEREMONY	6:30 PM – 8:00PM

Please Note: This document is subject to change as competition information is updated. Competitors are responsible for staying up to date with the most recent information. Check the footer for last updated date. Changes will be highlighted in ==yellow.==

CONTEST INTRODUCTION

Purpose of the Challenge

This challenge assesses technical knowledge of smaller buildings (e.g. single-family houses), light wood-frame construction practices, and the skills necessary to produce and print construction drawings using computer-aided design & drafting (CADD) software. The competition will also gauge the competitors' abilities to solve technical and functional problems to produce a building design. Competitors should be able to produce typical plans, elevations and sections.

PROJECT DESCRIPTION

Day 1. Competitors will be challenged with interpreting given information to develop a constructible architectural design solution for a small light wood-frame building.

Day 2. Competitors will complete their drawings.

SKILLS AND KNOWLEDGE TO BE TESTED

Architecture – envelope design, space planning, materials selection and an awareness of environmental sustainability concepts.

Engineering – structural determination (e.g. identify posts, beams and load bearing elements)

Construction – regulatory standards, assembly, maintainability, environmental considerations and sustainability

Core Competencies

Competitors will be required to demonstrate knowledge and skills in the following areas:

- CADD application including (but not limited to) practical knowledge of building modeling, drawing setup, printing, dimensioning, and annotation.
- Architectural detailing skills in 2D and 3D.
- Planning design concepts, architectural space layout and relationships.
- Fundamentals of building structural systems and incorporate it with the building envelopes.
- Presentation skills, including sheet layout, use of standard scale, illustration and graphical communication.
- Creation of digital drawings in PDF form to scale

EQUIPMENT AND MATERIALS

Competitors are required to bring their own device that is installed with licensed CADD software necessary for the competition without requiring internet access. Each competitor can choose their own device and software to suit their workflow and process they are familiar with.

Please note, each competitor will be limited to one laptop computer or desktop and one monitor. If competitors are bringing a computer or laptop from their school (instead of their personal computer), please ensure that the computer is unlocked with administrator privileges, so that if updates to software, drivers or file management system can be made by computer expert volunteers that will be assisting at the event. Additionally, competitors are required to bring their own supplies required for the competition. These supplies are outlined below. Software manuals, textbooks, external hardware, or electronic data (e.g. CD or photocopied material) will NOT be permitted – except as indicated below. During the competition, competitors may not access the internet or additional reference material (digital or hardcopy).

Equipment and Materials Competitors Must Supply:

- Computer loaded with the desirable software(s)
- Monitor(s) / Mouse / Keyboard
- Canadian Wood-Frame House Construction published by CMHC (hardcopy or digital (pre-downloaded; **no internet access**))
- Paper (for notes and sketching)
- Pencils or Pens
- Calculator / Imperial-Metric Convertor
- Scales (metric and imperial)
- Empty USB memory stick – min. 4 GB
- Computer locking device (optional)
- Power bar and extension cord (for BYOD Technology)
- 11x17 Titleblock for your selected software
- PDF creation tool (Adobe, Bullzip, etc.)

Note

- Digital music players & cell phones (for listening to music only) are permitted with headphones during the competition provided the volume is not disruptive to other competitors. Cell phones must be set to airplane mode, and placed face-down on the table in clear sight of competition invigilators.
- Internet is not available. Internet access is not permitted during the competition.

Bring Your Own Device (BYOD) Information

Competitors are required to bring their own device and software that meets or exceeds the stated requirements for their competition. Each competitor can choose their own device and software, so their workflow and process are what they are familiar with. If competitors are bringing a computer or laptop from their school (instead of their personal computer), please ensure that the computer is unlocked allowing for USB sticks, documents and possibly software to be saved/installed to the hard drive, and so that IT support can be properly provided onsite. This may require administrator privileges to access the CMOS settings. All USB sticks provided for competition use will be cleared and inspected prior to being used.

Note: Computers must remain inside the competition area for the duration of the competition from the time the competition begins on Day 1 to when the competition ends on Day 2 (including overnight). Competitors may supply their own locking cables if they wish.

Equipment Set-up and Testing (for BYOD events)

Before the Opening Ceremonies and registration, competitors who are competing in technology-based events that are a BYOD event will be given an opportunity to set up and test their equipment to ensure it is fully functional and networked (where required) prior to the start of the competition. Only accredited competitors and educators will be permitted into the competition site for equipment drop off and testing. Students who miss the equipment setup and testing opportunity will need to set up their equipment AFTER the mandatory COMPETITOR ORIENTATION time on the day of competition. Any time that is required to set up and test their equipment on the competition day will be part of their overall competition time. The competition time for these competitors will NOT be extended.

Equipment Set-Up and Testing will be held on Tuesday May 5, 2026, at 4:00PM.

Competition Specific Rules

The following Competition Specific rules along with SCA's overall Policies and Procedures provide specific details in competition areas that may vary from one another. Any additional contest rules will be reviewed during the Competitor Orientation.

Topic/Task	Contest Specific Rule
Use of Artificial Intelligence (AI)	The use of Artificial Intelligence (AI) during the competition is strictly prohibited. Use of AI will result in disqualification.
Computer Usage	Computers and laptops must remain onsite from setup/testing to the conclusion of the competition.

Use of Internet	There will be no access to the Internet during the competition.
Hardware and Software	Technical support for software will be provided during the competition at the discretion of the PTC members. Competitors are assumed to be knowledgeable in their chosen software and should have full working knowledge of its capabilities.
Resource Materials	The only resource permitted is the National Building Code of Canada. PDF or hardcopy acceptable. Flags and bookmarks are acceptable but any further information that gives the competitor an advantage is strictly prohibited. Documents will be reviewed by PTC members prior to competition start.
Washroom Breaks	Washroom breaks are at the discretion of the competitor. Additional time will not be provided for washroom breaks. The competitor must notify an PTC member when leaving the competition site. Cell phones must remain at the competitor's workstation when they leave for washroom breaks.

JUDGING CRITERIA

Presentation
Showcasing creative design with respect Canadian construction standards, demonstrate architectural solutions and problem solving, and effective operation of CADD applications.

Accuracy of Drawing
Technical design and presentation including (but not limited to); architectural drafting standards, dimensioning, line type, line weight, annotation, hatch/fill patterns, standard symbols, etc.

Work Organization
- Graphic layout and presentation of architectural drawings, designs, and technical solutions.
- Demonstrate ability to follow conceptual design intent and specifications through to solutions of design and technical problems.
- Referencing drawings and technical resources.
- Compliance with standards and building codes.
- Integration of Structural systems.

Solutions and Assessment

Competitors will demonstrate technical competence in:

- Resolving building construction and design problems.
- The application of architectural design and drafting standards.
- The operation of industry standard CADD application(s).

Solutions shall be original, innovative, sustainable, energy efficient, complete, simple, functional, and durable for Alberta's climate.

Weighting of drawings and Solutions (subject to change)

POINT BREAKDOWN Day 1	
Open Book Test: CMHC - Canadian Wood-Frame House Construction Knowledge	10%
Plans	30%
Exterior Elevations	20%
Building Section	10%
Total	**70%**

POINT BREAKDOWN Day 2	
Plans (Design of unfinished basement)	20%
Site Plan	10%
Total	**30%**

Tie Breaking Process

Ties will be broken by the judges' re-evaluation of the relevant documents for the tied competitors. Electronic file(s) may also be evaluated for the level of mastery of the software.

CLOTHING REQUIREMENT

It is important that competitors present a professional image and appearance. Appropriate work clothing must be worn to compete. Shoes must be closed toed. All clothing must be neat and clean and free of rips and tears.

SAFETY

The health, safety and welfare of all individuals involved with Skills Canada Alberta are of vital importance. Safety is a condition of participation with Skills Canada Alberta and shall not be sacrificed for the sake of expediency. At the discretion of the judges and technical committees, any competitor can be denied the right to participate should they not have the required proper safety equipment and/or act in an unsafe manner that can cause harm to themselves or others.

ADDITIONAL INFORMATION

Skills Canada Alberta Regional and Provincial Rules and Regulations
[Regional and Provincial Rules and Regulations](#)

Skillz & Thrillz Podcast
Check out our podcast – Skillz & Thrillz: Alberta's Trade & Tech Youth Podcast. Our talented alumni share tips and tricks on how to succeed in competitions and your career! Their insights can help you prepare for your Skills journey, and who knows, you might just be a future guest! https://skillsalberta.com/student-resources/skillz-thrillz-albertas-trade-tech-youth-podcast/

Project Change at the Competition
Where a Test Project has been circulated to competitors in advance, the PTC can change the project up to a maximum of 30% of the work content for the competition.

Competitor Registration
Registration for the Provincial Skills Canada Competition (PSCC) will open online on January 14, 2026 @ 3:30 PM. Please refer to this competitions event page for additional registration and competition information: https://skillsalberta.com/competition/

Lunch
Lunch for accredited competitors will be provided by Skills Canada Alberta.

Parking & Venue Maps
Parking is FREE for all attendees.
Attendees **MUST** register for FREE parking by clicking the below link. Attendees can pre-register their vehicle at anytime prior to the PSCC or register onsite at the PSCC.
https://www.offstreet.io/events/CBLHM7U1
http://edmontonexpocentre.com/attend/parking/

Opening Ceremonies / Competitor Onsite Registration
Opening Ceremonies for the PSCC will take place on Tuesday May 5, 2026, at 6:00 PM in Hall D of the Edmonton EXPO Centre. Admission is free, and everyone is welcome to attend. It is important to note that competitor registration will open immediately following the Opening Ceremonies.

Awards Ceremony

The Awards Ceremony will take place on Thursday May 7, 2026, at 6:30 PM in Hall D of the Edmonton EXPO Centre. Admission is free and everyone is welcome to attend. The Awards Ceremony will be shown live at http://skillsalberta.com/

Team Alberta Information

Team Alberta will be selected at the PSCC Awards Ceremony. Gold medalists will then be eligible to participate at the Skills Canada National Competition (SCNC) on May 27- May 30, 2026, in Toronto, Ont. It is recommended that competitors review and become familiar with the SCNC contest description and project at https://www.skillscompetencescanada.com/en/event/skills-canada-national-competition-2026/

During the PSCC Awards Ceremony on Thursday May 7, 2026, Gold medalists will be given their Team Alberta information package and will confirm their participation in the SCNC. Students must be present at the Awards Ceremony to claim their position on Team Alberta. If the Gold medalist is not able to attend SCNC, the next highest-ranking individual will be asked to participate. If a student is not able to attend the Awards Ceremony an email confirming the student's interest in Team Alberta participation must be emailed to javierad@skillsalberta.com prior to the start of competition on May 6, 2026.

Please prepare your students in advance to accept a position on Team Alberta and review how your school will support their participation.
Please see this link for additional Team Alberta information: https://skillsalberta.com/team-alberta/

Questions?

Please contact Mike Sury MikeS@SkillsAlberta.com

COMMITTEE MEMBERS

(Chair) Jacob Waldbillig – Dialog
William Thompson – SAIT
Ryan Hector – NAIT
Dryden Knull – ACI Architecture
Naama Messer – Lethbridge Polytechnic