Architectural Technology + Design

Secondary Contest Scope 2027

Skills Compétences Canada British Columbia

1 Contest Information

1.1 Contest Purpose

The purpose of the contest is to assess competitors in the following areas:

- Architectural design and drawing, knowledge of common room and furniture sizes,
- Preparation and organization of a drawing set: plans, elevations, sections and details
- Knowledge of construction methods and materials, and limits of materials (e.g. joist spans)
- Knowledge of building codes used in wood-frame construction

The winner of this contest will compete at the Skills Canada National Competition.

1.2 Technical Committee

Technical Chair: Wes Macaulay
Contact: wes.macaulay@ufv.ca

Any questions or inquiries regarding the competition should be sent at least two weeks prior to the provincial contest date to ensure answers are provided before the competition.

1.3 Contest Schedule

Competitors must be on time for the competition start or they may face disqualification.

8:00 am	Registration at Tradex Abbotsford
9:00 am	Sign in at the Architectural Technology competition area + orientation
9:30 pm	Secondary competition begins
1:00 pm	Secondary competition completion
1:15 – 3:00 pm	Judging of competition entries. Winners will not be announced until the awards ceremony.
6:00 pm	Skills Canada BC awards ceremony

1.4 Additional Information

Information about access, transportation, parking, competition rules, regulations and conflicts can be found on the provincial Skills Canada website.

See https://skillscanada.bc.ca/competitions/provincial-competitions/

2 Skills Tested

2.1 Practical Competition

You will be evaluated for the work you complete during the event. You will be provided with instructions for completing a set of drawings for a building, which will include sketches, specifications and/or written instructions, and dimensions for constructing a residence. The units may be in imperial or metric units, or a combination of both. You will be tasked with creating architectural site and floor plans, elevations, sections and details. You will need knowledge of basic building code requirements, stair dimensions, and common construction material sizes (e.g. 2x10 wood joists).

2.2 Software Used

You will create these drawings using the architectural software platform of your choice. 3D or building information modeling (BIM) software platforms are recommended. **As described later in this document, this is a "bring your own device" event**.

3 Judging Criteria

A judge from industry will be used to review the competitors' work. The weighting of the judging will be as follows:

50%	**Completion of the project:** sheets created, views placed on sheets, annotations (dimensions, room names, stair notes) placed in views
25%	**Accuracy and constructability:** the drawings as shown would be able to be used for construction, and comply with building codes and construction practice. 2D detailing has been provided where required
25%	**Graphics:** annotations are not placed on top of others; views and other elements are aligned in a complimentary manner
100 Marks	

4 Equipment

4.1 Supplied by Competitor

Competitors are required to bring their own computer and software to the SkillsCanada BC competition.

Desktop or laptop computer	Competitors must provide their own computer along with whatever peripherals they require (mouse, trackpad, etc). If the competitor uses the supplied 2nd monitor they will need to supply their own cable (connections shown below). No more than 2 monitors may be used.
Optional external monitor connections	From left to right: DisplayPort, VGA and DVI-D
Software platforms	ArchiCAD, AutoCAD, Revit, VectorWorks, SoftPlan, Chief Architect or others
Internet access	Internet access during the competition is not permitted. If access is needed briefly for licensing reasons, it will be provided.

PDF output	Competitors must be able to print to PDF for submission and evaluation by the judges
Administrator access	The account that the competitor is using for accessing the computer must be administrator-level so that driver updates or other issues can be addressed at the competition if needed. Tech support will not be provided at the event
Pens, pencils, scale, calculator	Students should bring metric and imperial architectural scales to the event along with materials needed for sketching (pens, 0.5mm pencil, white eraser)
Building Code	A digital (or hardcopy) version of the 2024 BC Building Code is permitted, and must be stored in a folder on the competitor's desktop. The tech chair will inspect your desktop before competition begins to files are being stored here as directed
CMHC Guide to Wood Frame Construction	A digital or hardcopy version of this document is permitted and must also be stored on the competitor's desktop.

Competitors may not access any other documents other than the competition documents during the event.

4.2 Personal Items

Cellular phones, music players	Competitors may bring cellular phones, but they must be in airplane mode and not accessed during the competition. Failure to do so will result in disqualification. Competitors are welcome to use earbuds or headphones while working
Water bottle	Water fountains are available on site. The tech chair will provide directions if you need a refill during the event
Snacks	Competitors may bring snacks to the event, but please refrain from bringing nut-based snacks in case other competitors have nut-based allergies

4.3 Use of Personal Data

NO PERSONAL DIGITAL CAD DATA OF ANY KIND MAY BE USED IN THE COMPETITION. Only objects supplied by the software developer may be used in the event. Use of personal data (windows, doors, pre-created templates, etc.) will disqualify the competitor from the event. Competitors will be submitting both PDFs and the software platform's data files so that they can be checked for authorship.

For example, Revit families used in the competition must all originate from the installed family libraries that are provided by the software. AutoCAD blocks from DesignCenter are also permitted. Plug-in objects provided by VectorWorks Architect are permitted.

Any other component, family or block beyond those provided by the software developers are NOT PERMITTED.

4.4 Materials Supplied by SkillsBC

SkillsBC will provide workspaces for competitors including two 120V power outlets per competitor, with room for a laptop and 2nd monitor. Wifi will be available briefly if software licensing requires it.

4.5 Safety

Competitors are expected to behave in a safe manner, and disruptions may disqualify the competitor at the chair's discretion. On-site safety will be discussed during orientation.