



2021
23rd ANNUAL SKILLS CANADA MANITOBA COMPETITION
VIRTUAL EDITION
CONTEST DESCRIPTION

CONTEST NAME: Architectural Technology and Design (Secondary)

CONTEST NO: 52

LEVEL: Secondary – up to four competitors per school.

CONTEST DEADLINES:

- Registration opens online through the Skills Canada Manitoba website **Monday, February 1, 2021**
- Competitor Registration Deadline: **Friday, March 12, 2021**
- Skills Canada Manitoba Competition to be held: **April 5 – 16, 2021**
- Deadline for student's work to be submitted: **Wednesday, April 14, 2021**
- Students work to be evaluated by: **Friday, April 16, 2021**
- Results to be posted on the Skills Manitoba website and social media sites on: **Wednesday, April 21, 2021**

There will be an **Orientation Session** prior to the competition. Details and time to be announced by the Provincial Technical Committee. Competitor and advisor attendance is mandatory.

CONTEST LOCATION: Home School

CONTEST DURATION: One continuous sitting of 4-hour duration.

ALL competitors from a single school must all compete during the same 4-hour duration on the same day.

SKILLS AND KNOWLEDGE TO BE TESTED:

To assess the competitors' skills in performing **design and drawing** tasks.

To assess the competitors' abilities to apply the following 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.

POINT BREAKDOWN/JUDGING CRITERIA:

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.

Design Solutions: Meet specifications, requirements, and are realistic and buildable.	20
Technical Drawings: Accurate, complete, and to drafting standards.	40
Presentation Drawings: Accurate, complete, and communicate design intent.	20
Compliance to National Building Code: Designs and drawings apply CMHC "Canadian Wood-Frame House Construction" content.	20
Total	100

PROJECT DESCRIPTION:

Tasks that may be performed during the competition:

- Preparation of Working/Construction Drawings and Presentation Drawings.
- BIM / CADD usage.
- Planning and design concepts.
- Measuring/scaling, detailing and sketching skill.
- Exporting drawings as a PDF.
- Knowledge of Wood frame construction.

The challenge during this competition will be to develop a **new second level living area**, which will include **stair** design and the creation of **dormers**. The competition project will also include the preparation of **floor plans** and **elevation** drawings. Presentation drawings can include colour. Student designs and drawings will adhere to Section 9 of the National Building Code.

EQUIPMENT AND MATERIALS:

Virtual Competition Resource Support Form

A \$40 competition resource subsidy is available to all competitors of the Skills Canada Manitoba Competition – Virtual Edition who are required to purchase items for their respective competition. It is intended for items that were purchased to support competitors. (e.g. food supplies, materials, technical equipment, tools etc.) Please complete the Virtual Competition Resource Support Form found on the Skills Manitoba website. Please note that receipts or a school invoice are required.

The following tools will be required for the competition:

- Computer hardware and software (single or dual monitor use only).
- Architectural Scale (imperial).
- Calculator.
- Pencil and sketch paper.
- [CMHC Canadian Wood-Frame House Construction](#) reference **printed or digital** version.
- New or formatted USB Flash Memory Stick.

SAFETY RULES / REQUIREMENTS:

- The health, safety and welfare of all individuals involved with Skills Canada Manitoba are of vital importance.
- At the discretion of the judges and technical committees, any competitor submission can be denied should the participant not have the required proper safety equipment and/or act in an unsafe manner that can cause harm to themselves or others.
- All competitors must complete and submit a **Safety Checklist** with your project submission. The Safety Checklist is located in the_Skills Manitoba Competition Information package as well as on the Skills Manitoba website.
- Submissions will not be judged if the completed Safety Checklist is not included in the submission.

SPECIAL CONDITIONS FOR A VIRTUAL COMPETITION:

Ethical Conduct: We recognize that participants will be competing individually in their own schools and therefore not all conditions can be monitored. However, we expect all competitors to compete fairly, respecting and abiding by the established rules in the true spirit of Skills Canada Manitoba.

Supervision of Competitor: Competitors will be required to have an adult with them that is qualified and competent in the contest area, to both supervise and ensure safety.

COVID 19 Protocol

Please follow all established COVID 19 protocols as per your school and Manitoba Health guidelines.

ADDITIONAL INFORMATION FOR A VIRTUAL COMPETITION:

- No software reference manuals, textbooks or electronic data will be permitted during the competition, other than the “CMHC Canadian Wood-Frame House Construction” print or digital version. **Internet** use is not permitted, except to access the Skills Manitoba Google Classroom.
- The competition will occur at the competitor’s **home school** only, in one **four-hour** block of time.
- At the end of four hours the competitors will independently prepare **PDF** copies of their drawings and **upload** them (and the safety checklist) to **Skills Manitoba Google Classroom**.
- Competitors will **record their screens** during the four-hour competition, using Google Meets or other methods. **These recordings will be uploaded to Google Classroom.**

More information to follow.

- The screens must be recorded using software installed on the computer, not by use of external devices (such as a cellphone) for quality purposes.
- The screen recording must include the entire four-hour competition duration, including the start and end of the competition.
- The screen recording must record the entire display, including the taskbar, and not a singular window.
- The competitor’s space will be **video recorded** for the duration of the competition, which must include **sound**. These recordings will be **uploaded to Google Classroom**. **More information to follow.** The video must show the space around the competitor, including the tools they access during the competition and their computer hardware setup.

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

THE IMPORTANCE OF ESSENTIAL SKILLS FOR CAREERS IN THE SKILLED TRADES:

Essential skills are used in nearly every job and at different levels of complexity. They provide the foundation for learning all other skills and enable people to evolve with their jobs and adapt to workplace change. Good Essential Skills means you will understand and remember concepts introduced in technical training. The following 9 skills have been identified and validated as key essential skills for the workplace: Numeracy, Oral Communication, Working with Others, Continuous Learning, Reading Text, Writing, Thinking, Document Use, and Digital Technology.

TECHNICAL COMMITTEE MEMBERS CONTACT INFORMATION:

Gordon MacRae
Design Drafting Teacher
[Tec Voc High School](#)
1555 Wall St.
Winnipeg, MB
R3E 2S2

Shelby Klimack
Design Drafting Teacher
[Crocus Plains RSS](#)
1930 1st St
Brandon, MB
R7A 6Y6

204 786-1401 Ext 577
gmacrae@wsd1.org

204-729-0309
klimack.shelby@bsd.ca