



## 2020 23rd ANNUAL SKILLS MANITOBA COMPETITION CONTEST DESCRIPTION

**CONTEST NAME:** ARCHITECTURAL TECHNOLOGY & DESIGN

**CONTEST NO:** 52

**LEVEL:** Post-Secondary Level

**CONTEST LOCATION:** Red River College, Notre Dame Campus, Room J1-21

**CONTEST START TIME AND DURATION:** 9:00am – 2:00pm

**PURPOSE OF CHALLENGE:**

Assess the contestant's skills in performing technical design and drawing tasks

**SKILLS AND KNOWLEDGE TO BE TESTED:**

The contestant will be challenged with interpreting instructions, reading, and developing a set of working drawings for commercial structure given a set of parameters based on part 3 of the National Building Code.

The competitor will be evaluated on the following;

- Computer Aided Drafting (CAD) and sketching techniques.
- Compliance to applicable standards established in the National Building Code, **NOT** including Provincial and Municipal amendments.

**POINT BREAKDOWN (1000 POINTS)**

|                                                        |     |
|--------------------------------------------------------|-----|
| <b><u>PRESENTATION:</u></b>                            | 100 |
| • Line weights & Line type usage                       |     |
| • Layout, organization of text and graphic information |     |
| • Use of appropriate hatching, when applicable         |     |

|                                                                        |     |
|------------------------------------------------------------------------|-----|
| <b><u>ACCURACY OF DRAWING</u></b> (Technical working drawing content): | 700 |
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- Use of Architectural conventions, best solution to the problem.
- Dimensioning, Annotation
- Line types, hatch
- scale

## **COMPLIANCE TO STANDARDS**

200

### **EQUIPMENT, TOOLS, MATERIALS TO BE PROVIDED BY COMMITTEE:**

Windows compatible hardware loaded with AutoCAD, REVIT & AutoCAD Architecture software (most recent version).

Should other software packages or platforms be desired, the contestant and their mentors are responsible for providing system support (e.g. installing, printing or networking and licensing) to complete the project as specified. Alternate software will require prior approval of the Provincial Technical Committee.

No software reference manuals, textbooks or electronic data, will be permitted for the duration of the competition. However, the NBC (National Building Code) will be required.

Only information submitted to the contestant by the Provincial Technical Committee during the contest will be authorized for use.

There will be a printer supplied on site for use by contestants and for judging purposes.

### **EQUIPMENT, TOOLS, MATERIALS TO BE SUPPLIED BY COMPETITOR:**

National Building Code, scales (metric and imperial), calculator, pencil and paper. Back up device, flash (jump) stick or external hard drive. **Please note that external backups will be subject to scrutiny by the Provincial Committee, prior to the start of the 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 level of Essential Skills required for most trades is as high as or higher than it is for many office jobs.

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, Digital.

Essential Skills Required for Architectural Technology and Design: Document Use, Numeracy

### **WORKSITE SAFETY RULES / REQUIREMENTS:**

Provided on site

### **FOR MORE INFORMATION CONTACT TECHNICAL COMMITTEE MEMBER:**

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