2023
25th ANNUAL SKILLS MANITOBA COMPETITION
CONTEST DESCRIPTION

CONTEST NAME: ARCHITECTURAL TECHNOLOGY & DESIGN

CONTEST NO: 52

LEVEL: Post-Secondary

CONTEST LOCATION:
Red River College Polytech, Notre Dame Campus, Skilled Trades and Technology Centre - Room T230B

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)
PRESENTATION 100
- Line weights & Line type usage
- Layout, organization of text and graphic information
- Use of appropriate drawing standards

SOLUTION AND ACCURACY OF DRAWING (Technical working drawing content): 700
- Use of Architectural conventions, best solution to the problem.
- Dimensioning, Annotation
- Line types, hatching
- Scale

COMPLIANCE TO STANDARDS 200

EQUIPMENT, TOOLS, MATERIALS TO BE PROVIDED BY COMMITTEE:
Windows compatible hardware loaded with AutoCAD & REVIT (2022).

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 **not** be a printer supplied on site for use by contestants and for judging purposes. Architectural competitors will submit electronic PDF files for evaluation.

EQUIPMENT, TOOLS, MATERIALS TO BE SUPPLIED BY COMPETITOR:
National Building Code, scales (metric and imperial), calculator, pencil and paper. Back up device, flash drive 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 SKILLS FOR SUCCESS FOR CAREERS IN THE SKILLED TRADES AND TECHNOLOGY;
In response to the evolving labour 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 absolutely 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

WORKSITE SAFETY RULES / REQUIREMENTS:
Provided on site.

FOR MORE INFORMATION PLEASE CONTACT:
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