

2025 27th ANNUAL SKILLS MANITOBA COMPETITION CONTEST DESCRIPTION

CONTEST NAME: Electrical Installations

CONTEST NO: 18

LEVEL: Secondary and Post Secondary

NOTE:

Secondary Level: 8 Competitors (1 Competitor per school, first eight schools

secure their spot)

Post Secondary Level: 4 Competitors

CONTEST LOCATION:

Red River College Polytechnic - Notre Dame Campus - B129

CONTEST START TIME AND DURATION:

Start time is 8:30 am, tools will be laid down at 1:30 pm.

PURPOSE OF CHALLENGE:

The purpose of this challenge is to test the abilities, both mental and physical, of the competing student in the field of electrical construction.

Page 1 of 3 Last Update: November 2024

SKILLS AND KNOWLEDGE TO BE TESTED:

The skills to be tested will be as follows:

- Installation of NMD cable
- Installation of AC-90
- Extra-low voltage circuits
- EMT installation
- Motor controls (post-secondary only)

POINT BREAKDOWN / 100% TOTAL:

TBA

EQUIPMENT, TOOLS, MATERIALS TO BE PROVIDED BY COMMITTEE:

- All wiring materials
- EMT Bender (1/2")
- Ladder
- Cordless Impact Driver

EQUIPMENT, TOOLS, MATERIALS TO BE SUPPLIED BY COMPETITOR:

Equipment and material provided by the competitor.

- Electrician's pouch
- Supplies for drawing and writing, i.e., pencil, eraser, etc.
- Metric tape measure (or a metric/SAE combination)
- Set of screwdrivers (Robertson, slotted, and Phillips)
- Electrician's Level
- Electrician's pliers (lineman's pliers)
- Cutting pliers (side cutters)
- Knife (no utility knives, box cutters etc.) Must be a lockable or fixed blade type.
- Needle-nose pliers
- Hammer
- Metal hacksaw
- EMT reaming tool
- Wire stripper
- Cordless drill (recommended)
- Electrical digital multi-meter (optional)

WORKSITE SAFETY RULES / REQUIREMENTS:

A safety orientation will be held on the day of the competition, providing a full set of safety rules.

Mandatory personal protective equipment (must be CSA approved):

- Hard hat
- Work boots (steel toe, electric shock resistant)
- Safety glasses/goggles (clear, non-tinted)

Page 2 of 3 Last Update: November 2024

SPECIAL CONDITIONS / ADDITIONAL INFORMATION:

Please be advised that we only have space for 8 competitors in the Secondary and 4 in the Post-Secondary competitions. 2 competitors may be allowed from an individual school <u>if</u> there is no other school trying to enter a student.

THE 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 (formerly Essential Skills) model defining nine key skills needed by Canadians to participate in work, in education and training, and in modern society more broadly. Skills Canada 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

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Page 3 of 3 Last Update: November 2024