



## Table of contents:

1. General Contest Information
2. Skills and Knowledge to be Tested
3. Judging Criteria
4. Equipment and Materials
5. Safety

### **1. General Contest Information**

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#### **1.1: Purpose of Contest**

To provide competitors with the opportunity to demonstrate their skills and knowledge in electrical installation of residential wiring through practical application, in compliance with health and safety regulations and the Canadian/Ontario Electrical Code.

#### **1.2: Objective/Description of event**

Competitors will have two separate sessions to install residential electrical equipment according to the drawings provided. Each session will be marked separately and then competitors will disassemble their work.

Drawings and instructions will be supplied on the day of the competition.

#### **1.3: Technical Committee**

Chair(s):      Tim Craigen – [craigent@limestone.on.ca](mailto:craigent@limestone.on.ca)  
                  Tyler Brinklow - [brinklowt@limestone.on.ca](mailto:brinklowt@limestone.on.ca)  
                  Matt McLeod – [mcleodmatthew@limestone.on.ca](mailto:mcleodmatthew@limestone.on.ca)

#### **1.4: Contest Schedule**

**Date and Location: Thursday, February 26, 2026 – St. Lawrence College**

9:00 - 9:30	Competitor Registration and Welcome (Cafeteria)
9:30 – 12:30	Competition
12:30 – 1:00	Lunch
1:00 – 3:30	Competition
3:30 – 4:00	Clean-Up
4:00 – 5:00	Dinner (pizza provided)
5:00 – 6:30	Awards Ceremony (Gymnasium)
6:30 – 7:30	Open house and collection of projects/tools

***ALL PARTICIPANTS MUST PARTICIPATE in shop and equipment clean-up***

\*Competitors must be on time for their contest or may be disqualified at the discretion of the Technical Committee.

**Closing ceremony: Thursday, February 26<sup>th</sup> hosted at St. Lawrence College at 5:30pm**



## 2. Skills and Knowledge to be Tested

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### 2.1: Specific Requirements

The contest will have a rubric scoring system. The overall score will be the sum of the points awarded for each of the components. Points are awarded as the competitor(s)/project successfully meets/completes certain performance criteria. Performance criteria are structured, when possible, to provide a range of tasks from easy to complex for each category.

Competitors will be expected to perform competently in all aspects of wiring installations with respect to the following:

- Perform the assigned task from given drawings and specifications.
- All work must conform to the rules and regulations of the 2024 Canadian Electrical Code, Part 1, 26th Edition.
- Conform to the Occupational Health and Safety Act and Regulations for Construction Projects 213/91.

#### Practical -90%

- Health and Safety knowledge and practice in the electrical installation field
- Proper use of tools, materials and equipment that are used in basic electrical residential construction
- Basic electrical theory that includes mathematical calculations, schematics, prints and electrical measurement
- Basic knowledge of wiring types, methods and practices used in the installation of residential construction

#### Occupational Health and Safety – 10%

- P.P.E. required
- Safe work procedures
- Basic hazard awareness

## 3. Judging Criteria

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### 3.1: Rubric

Judging Criteria	Evaluation Scoring
Safety Procedures <ul style="list-style-type: none"><li>• Compliance with Occupational health and safety</li></ul>	<b>10 %</b>
Compliance with 2021 Canadian Electrical Code (Installations)	<b>25%</b>
Boxes and devices located at correct locations	<b>20%</b>
Circuits wired correctly and to the appropriate breaker	<b>15%</b>



Grounding & Bonding	<b>10%</b>
• Grounding and bonding of all devices as per the Code	
Workmanship/Quality of Work	<b>15%</b>
<b>Total:</b>	<b>100%</b>

Rule infractions will result in appropriate mark deductions at the discretion of the Technical Committee.

### 3.2: Tie Breakers

As the rules state, there are no ties. If the score is tied after the contest, the first to finish will be used as the tie breaker.

## 4. Equipment and Materials

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### 4.1: Supplied by Competitor

*All tools must be in safe working order*

- **Personal Protective Equipment listed included in 5.1**
- Tool Pouch/Box/Belt
- Claw Hammer
- Pencil, erasers
- Cordless or corded drill
- Driver bits - #2 Robertson
- Spade bits –  $\frac{1}{2}$ ",  $\frac{3}{4}$ " and 1"
- Tape measure
- Pliers
  - 1 linesmen pliers
  - 1 diagonal pliers
  - 1 long-nosed pliers
- Screwdrivers
  - 2 Flat (Small & Large)
  - 3 Robertson (#1-#3)
  - 2 Philips (#1-#2)
- Allen keys – Metric and Imperial
- Wire Strippers
- Torpedo Level
- Utility knife
- Water Bottle
- Optional: 2024 Ontario (Canadian) Electrical Code

*Contestants may bring other tools not listed but they must be approved by the Committee Chair in advance.*



*Please ensure that all tools the students bring are labeled with their names or are identifiable as to which school/person they belong.*

#### **4.2: Supplied by Competition**

- VOM meter
- All materials

#### **4.4: Prohibited**

Cell phones are not allowed in the shop during the competition.

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### **5. Safety**

Safety is a priority at the Limestone Skills Competition. At the discretion of the judges and technical chairs, any competitor can be removed from the competition site for not having the proper safety equipment and/or not acting in a safe manner.

#### **5.1: PPE**

- CSA compliant hard hat
- CSA compliant safety glasses
- CSA compliant footwear

Competitors may bring and use hearing protection and appropriate work gloves.

1. It is mandatory for all competitors to wear CSA Class 1 (impact) approved eyewear. \* If a competitor has prescription eyewear, they may either:
  - a. wear CSA approved eyewear (oversized) overtop of their prescription eyewear, OR
  - b. wear CSA approved prescription eyewear.
  - c. Prescription eyewear not CSA approved worn (everyday prescription eyewear) with side shields is not CSA approved for class 1 as being impact resistant and therefore one of the two options above must be followed.
2. It is mandatory for all competitors to wear CSA green patch OMEGA rated approved footwear.\*
3. It is mandatory for all competitors to wear a CSA approved (class E) hard hat.
4. It is recommended for all competitors to wear hand protection (i.e. work gloves)
5. Jewelry is not permitted
6. Proper shop attire is to be worn (no loose straps, baggy sleeves). Any attire that is deemed unsafe by competition judges will not be permitted.\*
7. Full Length Pants Mandatory.
8. Sleeveless Shirts Not Permitted.
9. \*Competitors will not be permitted to compete until they have the needed safety equipment.  
ALL SAFETY EQUIPMENT MUST BE IN GOOD WORKING ORDER I.E. NO TEARS OR HOLES.  
Competition judges will have final authority on matters of safety



### **5.2: Behaviors**

Safety is a priority in our competitions. At the discretion of the Technical Committee, any competitor can be removed from the competition site for not having the proper safety equipment and/or not acting in a safe manner.

### **5.3: Equipment Knowledge**

Competitors must show competence in the use of tools and/or equipment outlined in this scope and can be removed at the discretion of the judges and technical chairs if the competitor does not display tool and/or equipment competency.