

DATE	LOCATION
Tuesday, March 24, 2020	NSCC Kingstec Campus

## 1. Schedule

Time	Task
7:00 am	Competitor briefing
7:30 am	Competition begins
11:30 am	Lunch (provided)
12:00 pm	Competition resumes
2:00 pm	Competition ends + judging begins

\* There will be one 15-minute break in the morning and the possibility of a second break in the afternoon.

## 2. Purpose of the Contest

Assess the competitor's skills and abilities at performing various installation tasks in the field of residential, commercial and industrial wiring.

## 3. Criteria

There is a six (6) hour time limit for this competition, therefore time will be a factor. The first person to complete, however, may not be the winner. If the time expires, you will be marked on what you have completed. If time allows, the competitor is permitted to redo any skills that he or she feels may improve their marks. Judging will commence when the contestant has left the contest area or the time limit has expired.

All work must be completed according to the current CEC specifications and diagrams/blueprints. Quality of work, including neatness, and compliance with rules and regulations will be evaluated.

## 4. Number of Stations / Allocations

There are twelve (12) spaces available.

## 5. Skills & Knowledge to be tested (in no particular order)

- Box location and installation;
- Cable and conductor installation;

- Cable and conduit supporting;
- Conduit installation;
- Offsets or kicks shall be installed at each end of conduit terminating at a box or enclosure. Selection of best practice shall be determined by competitor;
- Install proper color #14 AWG conductors into conduit;
- Install #14 bonding conductor in EMT;
- Properly install wiring devices;
- Install trim such as switch plates and plug plates on all devices;
- Properly label circuit breakers in panel upon completion of competition;
- Ensure that all circuit breakers are in the **OFF** position.

## **6. Prerequisites**

- Measuring and marking dimensions on a work surface using scaled drawings;
- Installing electrical equipment, cables, conduit and raceways;
- Measuring, cutting, reaming and drilling;
- Assembling components using screws, staples and bolts;
- Wiring and connecting of electrical components;
- Read, interpret and execute plans, drawings, diagrams and schematics in compliance with standards;
- Knowledge of electrical materials;
- Knowledge of basic electrical circuits;
- Knowledge of OHS standards and regulations;
- Knowledge of the 2018 Canadian Electrical Code requirements.

## **7. Equipment & Clothing**

- Appropriate, professional clothing (no shorts or ripped pants);
- A competition t-shirt is supplied that competitors are required to wear. Competitors must change prior to the start of the competition.

### **a) What Equipment Will Be Supplied:**

- EMT benders;
- Cordless drills, drivers and bits.

### **b) What Competitors Must Supply**

- All basic hand tools including but not limited to screwdrivers, various pliers, knife (must be either a locking blade or straight blade, absolutely no razor / box cutting knives), hammer, hack saw, metric/standard tape measure, pencil and PPE.

## 8. Evaluation & Judging Criteria

The points allowed for the completion of the varying skills demonstrated in the practical test are allocated as follows:

<b>Criteria</b>	<b>Points</b>
Safety – electrical and personal	36
Housekeeping	18
Professional attitude	20
Competition installation	286
<b>TOTAL</b>	<b>360</b>

## 9. Additional Information

- When you have completed the contest you must clean up your area and immediately advise a judge.
- You must hand in your installation plan and documents, sign out, and leave the competition area immediately!
- Judges will advise at 30, 15 and 5 minutes remaining to finish and clean up.
- All tools and brooms must be put away at the final announcement.

## 10. PTC Contact Information

<b>Name</b>	<b>Employer</b>	<b>Email</b>
Ted Peters – Chair	NSCC Ivany Campus	<a href="mailto:ted.peters@nsc.ca">ted.peters@nsc.ca</a>
Martin Beattie – Co-Chair	NSCC Kingstec Campus	<a href="mailto:marty.beattie@nsc.ca">marty.beattie@nsc.ca</a>
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2020 Nova Scotia Skills  
Electrical Installation  
Competition Layout

