



SKILLS CANADA PEI PROVINCIAL COMPETITION

CONTEST DESCRIPTION	
Competition Date	Wednesday, March 8, 2017
Competition location	Holland College Waterfront Campus
Trade Number	18
Trade Name	Electrical Wiring
Level	Post-Secondary

1. INTRODUCTION

1.1 Purpose of the Challenge.

To evaluate contestants ability to perform specific tasks relating to electrical wiring in the Commercial and Residential sectors

1.2 Duration of contest.

7 Hours

- 8:00 AM Registration and time for competitors to become familiar with the location and equipment.
- 8:10 AM Introductions; details of the competition; question and answer Session.
- 8:15 AM Competition begins
- 10:15 AM Break (15 minutes)
- 10:30 AM Competition resumes
- 12:00 PM Lunch break (lunch will be provided to the competitors)
- 12:30 PM Competition resumes
- 2:15 PM Break (15 minutes)
- 2:30 PM Competition resumes
- 3:30 PM Judging

1.3 Skills and Knowledge to be tested.

- Demonstrate the ability and competency in reading blueprints and specifications
- Safe use of hand and power tools
- Quality, accuracy and thoroughness in workmanship
- Ability to complete an assignment in a given time
- General work attitude
- Contestants should be familiar with residential and commercial wiring methods, including but not limited to: installation of cable and conduit; installation of device and junction boxes; circuiting; and panel board installation



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2. ESSENTIAL SKILLS

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 or higher than it is for many office jobs.

3. EQUIPMENT, MATERIAL, CLOTHING

3.1 Each competitor will bring the following:

Full set of hand tools as per Holland College tool list for electrical programs
Continuity tester and/or Multimeter
Hacksaw
Cordless drill and bits (optional)
Canadian Electrical Code book – latest edition in effect

3.2 Equipment and material provided by the competition site

½" to 1" knockout punches
E.M.T .benders
PVC benders

3.3 Required clothing (Provided by competitor)

C.S.A approved work boots (green triangle)
Safety glasses (Z87)
Clothing to be clean, neat and tidy, (close fitting)

4. ASSESSMENT

5.1 Contestant evaluation will be based on the following:

Judges will be volunteer industry professionals

Contestant evaluation will be based on the following:

Observing applicable Occupational Health and Safety rules and regulations
Observing Canadian Electrical Code rules and regulations
Ability to follow plans and specifications
Installation techniques



SKILLS CANADA PEI PROVINCIAL COMPETITION

Planning and organization of work

Proper use of materials and economy of the use of materials

Verification of proper operation

The competition will consist of a practical installation using EMT tubing, PVC conduit, NMD-90, and Armored cable (BX)

The evaluation will test the competitor's ability to do an installation according to given plans and specifications. The contestant should be well versed in Health and Safety regulations, Electrical Code regulations, and the ability to work from a given set of written instructions and electrical schematic and/or wiring diagrams. Contestants will be evaluated by a judge or judges using a numerical based scoring system. If a tie results between two or more competitors the tie breaker will be based on project completion time or if projects are not complete the project that is the most complete shall determine placement.

The competition will include the mounting of a three phase or single phase panel board, the mounting of devices (receptacles, lights, heaters etc.) and verification of wiring through a live circuit test upon completion

5. ADDITIONAL INFORMATION

5.1 Tie (No ties are allowed)

In the event of a tie, the competitor with the highest score in the Operation criteria will be declared the winner. If a second tie occurs, the competitor with the highest score in the Health and Safety criteria will be declared the winner.

5.2 Competition rules

Please refer to the competition rules for all general PSC information.

6. CONTACT INFORMATION

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