

SKILLS COMPETITION
Electrical – SECONDARY LEVEL

Date: Monday, February 26, 2024

Location: Loyalist College

PURPOSE OF THE 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.

SKILLS AND KNOWLEDGE TO BE TESTED:

- Health and Safety knowledge and safe work 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

TOOLS, EQUIPMENT AND MATERIALS SUPPLIED BY THE COMMITTEE:

- VOM meter
- Claw hammer
- Screw driver set
- Pliers - 1 linesmen pliers, 1 diagonal pliers, 1 long-nosed pliers
- Wire strippers
- Cordless drill with assorted driver bits
- Allen keys – Metric and Imperial
- Tape measure - Metric and Imperial
- Folding Knife

EQUIPMENT SUPPLIED BY THE COMPETITOR

- Calculator, pen, pencil notebook.
- Work gloves
- CSA compliant hard hat - Class E
- CSA compliant safety shoes
- CSA compliant safety glasses
- Competitor is allowed to bring any personal tools from the above list of approved tools.

SAFETY

Safety is the number 1 priority at Loyalist College. At the discretion of the judges and technical support any competitor can and will be removed from the competition site for not having the appropriate safety equipment and / or for not practicing safe codes of conduct.

- It is mandatory for all competitors to wear CSA approved eye wear.
- It is mandatory for all competitors to wear CSA approved foot wear.
- It is mandatory for all competitors to wear a CSA approved hard hat - Class E
- Loose clothing, shorts, muscle shirts, rings, necklaces are not permitted.
- Cell phones, smart devices, ear buds and music are not permitted on the shop floor.
- No power will be applied to the circuits by the competitors. All circuit testing with power will be performed by Loyalist College qualified staff during the judging.

Rules and Regulations

- Late arrivals will be disqualified from the competition.
- A competitor will be disqualified for showing any disregard for themselves, other competitors or the equipment.
- A competitor will be disqualified for using equipment or materials that are not permitted.
- A competitor will be disqualified for dishonesty or cheating.
- Competitors are not permitted to have any coaching on the shop floor during the competition any coaching will be met with immediate disqualification.
- Competitor will be disqualified if found using cell phone or smart device during the competition on the shop floor.
- Competitors are not permitted to wear logos, except for school or school board logos.

ADDITIONAL INFORMATION

- A minimum of 4 and a maximum of 12 competitors will be allowed to compete in the competition.
- Project tear down and cleanup by competitor is mandatory upon completion of judging.
- The competitor will be graded on their tear down and clean-up.
- Upon completion of the their project the competitor will leave the shop floor immediately and not return until the required tear down time.