2023 Provincial Skills Canada Competition

Contest Description
Edmonton Expo Centre, Edmonton
May 3 & May 4, 2023

EVENT: Electrical Installation	**LEVEL:** Post-Secondary
WORLDSKILLS TRADE #: 18	**LOCATION:** Hall C, Edmonton Expo Centre, Edmonton
DURATION: 13 hrs (Two Days)	

COMPETITION SCHEDULE:

May 3:

ORIENTATION	7:30AM-8:00AM
COMPETITION	8:00AM-10:15AM
BREAK	10:15AM-10:30AM
COMPETITION	10:30AM-12:30PM
LUNCH	12:30PM-1:30PM
COMPETITION	1:30PM-3:00PM
BREAK	3:00PM-3:15PM
COMPETITION	3:15PM-4:30PM

The times above are approximate and may change as required.

May 4:

ORIENTATION	7:30AM-8:00AM
COMPETITION	8:00AM-10:15AM
BREAK	10:15AM-10:30AM
COMPETITION	10:30AM-12:30PM
LUNCH	12:30PM-1:30PM
COMPETITION	1:30PM-3:15PM

CONTEST INTRODUCTION

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

Given a supply of electrical equipment, competitors will build a complete electrical system according to supplied drawings and specifications incorporating a variety of wiring types and methods that may include non-metallic sheathed cable (NMSC), armored cable (AC90), EMT, Wireway and PVC. Competitors will demonstrate their ability to do work in accordance with drawings and specifications, while showing general understanding of basic electrical circuits, control programming and knowledge of the current Canadian Electrical Code.

SKILLS AND KNOWLEDGE TO BE TESTED:

Throughout the competition, competitors can expect to be evaluated in the following areas:

- Installing residential wiring, commercial wiring, and control systems.
- Installing motor controls.
- Troubleshoot using test instruments.
- Wire and program a smart relay.
- The provided smart relay must be programmed by the onboard display.

PROJECT DESCRIPTION

Competitors will work in a 3-sided booth installing materials as described in the Contest Introduction. The project diagram will be provided on site.

EQUIPMENT & MATERIALS

Equipment and Materials Competitors Must Supply:

CSA Approved hard hat	Wire strippers	Claw hammer	CSA Approved steel toed work boots
Hacksaw and blades	Tri-tap	Linesman pliers	Side cutters
CSA Approved safety glasses or goggles	Measuring tape (metric)	Robertson screwdrivers	Water pump pliers
Gloves	Flat screwdrivers	Electricians' knife (no snap off blades)	Long nose pliers
Pencil	Phillips screwdrivers	Drywall saw	Magnetic torpedo level

NOTE: Competitors may bring tools other than those listed above. However, contestants will need approval from the committee prior to the competition in order to use these additional tools.

Equipment and Materials Supplied by the Committee:

Cordless Drills (Competitor must use drills provided by the Committee)	Ladders	Conduit benders
Heat gun	CSA Approved Hearing Protection	#2 Robertson driver bit
Current CEC Code book	Mitre box	3/4" auger bit
Schneider Zelio Smart Relay	Control Screwdriver	Digital Multi-meter

JUDGING CRITERIA

Operation/Programming	25%
Equipment Installation	12.5%
Measurements	12.5%
Cable Installation	10%
Tubing, Wireway & Conduit	10%
Connection of Conductors	10%
Health, Safety & Housekeeping	10%
Trouble Shooting	10%
Overall Total	**100%**

TIE BREAKING PROCESS:

In the event of a tie between two or more competitors, the competitor with the highest mark in Operation will be declared the overall winner. If still tied, the competitor with the highest mark in Health, Safety and Housekeeping will be declared the overall winner. And, if still tied, the competitor who took the least amount of time to complete the project will be declared the overall winner.

CLOTHING REQUIREMENT

Appropriate work clothing must be worn to compete. All clothing must be neat, clean and free of rips and tears. Casual wear such as shorts and open toe footwear will not be permitted. No loose-fitting clothes or jewelry.

SAFETY

The health, safety, and welfare of all individuals involved with Skills Canada Alberta are of vital importance. Safety is a condition of participation with Skills Canada Alberta and shall not be sacrificed for the sake of expediency. At the discretion of the judges and technical committees, any competitor can be denied the right to participate should they not have the required proper safety equipment and/or act in an unsafe manner that can cause harm to themselves or others.

ADDITIONAL INFORMATION

Skills Canada Alberta Regional and Provincial Rules and Regulations

Regional and Provincial Rules and Regulations

Lunch

Lunch for competitors will be provided by Skills Canada Alberta.

Parking & Venue Maps

http://edmontonexpocentre.com/attend/parking/

Opening Ceremonies / On-site Provincial Competitor Registration

Opening Ceremonies for the PSCC will take place on Tuesday May 2, 2023 at 6:00 pm in Hall D of the Edmonton EXPO Centre. Admission is free, and everyone is welcome to attend. It is important to note that competitor registration will open immediately following the Opening Ceremony.

Awards Ceremony

The Awards Ceremony will take place on Thursday May 4, 2023 at 6:30 pm in Hall D of the Edmonton EXPO Centre. Admission is free and everyone is welcome to attend. The Awards Ceremony will be shown live at http://skillsalberta.com/

Team Alberta Information

Team Alberta will be selected at the PSCC Awards Ceremony. Gold medalists will then be eligible to participate at the Skills Canada National Competition (SCNC) on May 24- 27, 2023 in Winnipeg MB. It is recommended that competitors review the SCNC contest description to be familiar with the national contest description and project at http://www.skillscanada.com/.

During the PSCC Awards Ceremony on Thursday May 4, 2023 gold medalists will be given their Team Alberta information package and will confirm their participation in the SCNC. Students must be present at the Awards Ceremony to claim their position on Team Alberta. If the Gold medalist is not able to attend SCNC, the next top ranking individuals will be asked to participate. If a student is not able to attend the Awards Ceremony a letter confirming the student's interest in Team Alberta participation must be emailed to javierad@skillsalberta.com prior to the start of competition on May 3, 2023.

Test Project change at the Competition

Where the Test Project has been circulated to Competitors in advance, PTC can change a maximum of 30% of the work content.

Questions?

Please contact Kennedy Mayer at kennedym@skillsalberta.com if you have any questions regarding the Contest Description.

COMMITTEE MEMBERS

Chuck Zylla – NAIT Polytechnic	Dana Alisat – Skyline Electric
Ronald Stocks – Legacy Volunteer	David Bates - Lakeland College
Michael Cope – Industry Member	David Peard – SAIT Polytechnic
Elaine Cope – Apprenticeship & Industry Training	Jordan Shapka – Lethbridge College
Tim Froehler – Red Deer Polytechnic	Shane Hanson – EECOL Electric
Dawn Ohama – Keyano College	Tristen Hatto – Industry Member