Contest Description Edmonton Expo Centre, Edmonton May 7 & 8, 2025

EVENT: Electrical Installation	LEVEL: Secondary
WORLDSKILLS TRADE #: 18	LOCATION: Hall C, Edmonton Expo Centre, Edmonton
DURATION: 11 hrs (Two Days)	REGIONALIZED: No

COMPETITION SCHEDULE:

May 7:

ORIENTATION	7:30AM-8:00AM
COMPETITION	8:00AM-9:45AM
BREAK	9:45AM-10:00AM
COMPETITION	10:00AM-11:30AM
LUNCH	11:30AM-12:30PM
COMPETITION	12:30PM-2:00PM
BREAK	2:00PM-2:15PM
COMPETITION	2:15PM-3:30PM

May 8:

ORIENTATION	7:30AM-8:00AM
COMPETITION	8:00AM-9:45AM
BREAK	9:45AM-10:00AM
COMPETITION	10:00AM-11:30AM
LUNCH	11:30AM-12:30PM
COMPETITION	12:30PM-2:15PM

The times above are approximate and may change as required.

Please Note: This document is subject to change as competition information is updated. Competitors are responsible for staying up to date with the most recent information. Check the footer for last updated date. Changes will be highlighted in yellow.















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 and PVC. Competitors will demonstrate their ability to do work in accordance with drawings and specifications, while showing general understanding of basic electrical circuits and knowledge of the 2021 Canadian Electrical Code.

SKILLS AND KNOWLEDGE TO BE TESTED:

- Interpretation and use of basic electrical design & diagrams of a physical facility.
- Wiring (AC90 & NMSC) a sub panel and various branch circuits using standard trade practices, complying with relevant sections of the 2021 CE Code. Wiring will be fished/pulled to various circuits.
- Basic tubing and conduit bending (EMT & PVC) including offsets, saddles, 90° bends and strapping.
- Basic relay operation.

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	Wire Strippers	Magnetic Torpedo	Water Pump Pliers
Hat		Level	
CSA Approved Steel	Tri-Tap	Linesman Pliers	Side Cutters
Toed Work Boots			
CSA Approved Safety	Measuring Tape	Robertson Screwdriver	Claw hammer
Glasses or Goggles	(metric)		
Gloves	Flat Screwdrivers	Electricians' Knife (no	Hacksaw and Blades
		snap off blades)	
Pencil	Phillips Screwdrivers	Drywall Saw	Long Nose Pliers















Equipment and Materials Supplied by the Committee:

Cordless Drills (Competitors must use	Ladders	EMT benders
drills provided by the committee)		
2021 CE Code Book	CSA Approved Hearing Protection	3/4" auger bit
#2 Robertson driver bit	Digital Multimeter	Control Screwdriver

JUDGING CRITERIA

Overall Total	100%
Compliance with Health and Safety Regulations	10%
Connection of Conductors to Components and Equipment	15%
Tubing and Conduit Installation	10%
Cable Installation	10%
Measurements	10%
Equipment Installation	15%
Operation	30%

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 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.















RELATED CAREER AND TECHNOLOGY STUDIES COURSES

ELT 1010 Electro-Assembly	ELT 1080 Control Systems 1	ELT2030: Branch Circuit Wiring
ELT1030: Conversion &	ELT 1110 Security Systems 1	ELT2130: Magnetic Control
Distribution		Devices
ELT3030: Power Systems and	Electrical Code Simplified:	ELT3400: 1st Period Electrical
Services	Residential Wiring – Alberta	Apprenticeship Modules

Descriptions of the modules listed above are located at the following website: https://education.alberta.ca/media/160536/elt.pdf

ADDITIONAL INFORMATION

Skills Canada Alberta Regional and Provincial Rules and Regulations

Regional and Provincial Rules and Regulations

Project Change at the Competition

Where a Test Project has been circulated to competitors in advance, the PTC can change the project up to a maximum of 30% of the work content for the competition.

Competitor Registration

Registration for Provincial Skills Canada Competition (PSCC) will open online on January 15, 2025 @ 8:30 AM. Please refer to this competitions event page for additional registration and competition information: https://skillsalberta.com/competition/

Lunch

Lunch for accredited competitors will be provided by Skills Canada Alberta.

Parking & Venue Maps

Parking is FREE for all attendees. http://edmontonexpocentre.com/attend/parking/















Opening Ceremonies / Competitor Registration

Opening Ceremonies for the PSCC will take place on Tuesday May 6, 2025, 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 Ceremonies.

Awards Ceremony

The Awards Ceremony will take place on Thursday May 8, 2025, 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 28- May 31, 2025, in Regina, SK. It is recommended that competitors review the SCNC contest description to be familiar with the national contest description and project at

https://www.skillscompetencescanada.com/en/calendars/category/skills-canada-national-competition/

During the PSCC Awards Ceremony on Thursday May 8, 2025, 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 individual 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 7, 2025.

Please prepare your students in advance to accept a position on Team Alberta and review how your school will support their participation.

Please see this link for additional Team Alberta information: https://skillsalberta.com/team-alberta/

Questions?

Please contact Mike Sury MikeS@SkillsAlberta.com















PROVINCIAL TECHNICAL COMMITTEE (PTC) MEMBERS

Ronald Stocks – Legacy Volunteer	David Bates - Lakeland College
Michael Cope – Apprenticeship & Industry	David Peard – SAIT
Training	
Elaine Cope – Apprenticeship & Industry	Jordan Shapka – SAIT
Training	
Tim Froehler – Red Deer Polytechnic	Shane Hanson – Red Deer Polytechnic
Tyler Wasilenko – Red Deer Polytechnic	Conor Delbello – Lethbridge Polytechnic
Dawn Ohama – Keyano College	Tristen Hatto – Industry Member – Legacy
	Competitor
Steve Liedtke – Pembina Pipeline Corporation –	Bryan Roberts – NAIT
Legacy Competitor	













