



2026 Wood Buffalo Regional Skills Canada Competition

Contest Description

Keyano College, Clearwater Campus (8155 Franklin Ave, Fort McMurray)

April 16, 2026

EVENT: Electrical Installations		LEVEL: Secondary
DURATION OF CONTEST: 6 HOURS		LOCATION: Electrical - CC 108
COMPETITION SCHEDULE:		REGIONALIZED: NO If YES, To compete at the Provincial Skills Canada Competition students must qualify at their Regional Skills Canada Competition.
ORIENTATION	7:45AM - 8:00AM	
COMPETITION	8:30AM - 3:00PM	
LUNCH	11:30AM - 12:00PM	
AWARDS CEREMONY	4:00PM	
AWARDS CEREMONY INFORMATION: Elements Dining E102, Keyano College 4:00 - 5:00pm		

CONTEST INTRODUCTION

The purpose of the Secondary Electrical competition is to provide high school students (referred to as secondary competitors) with an opportunity to compete with their peers in the practical application of the Canadian Electrical Code. It is understood that secondary students have not had the opportunity to attend post-secondary electrical training. However, many students are able to learn electrical skills via their high school programs, work experience (s) and/or RAP placements.

SKILLS AND KNOWLEDGE TO BE TESTED

- Interpreting and using basic electrical design & diagrams of a physical facility.
- Wiring (AC90 & NMD) a sub panel and various branch circuits using standard trade practices, complying with relevant sections of the current CEC. Wiring will be fished/pulled to various circuits.
- Basic conduit bending. (EMT) may include offsets, saddles, 90 degree bends and strapping.
- Determining adequate protection for equipment and components.

PROJECT DESCRIPTION

Competitors will be introduced to basic skills of the electrical wiring trade. They will interpret and use basic electrical design and diagrams, wall mount a panel, and determine the adequate protection for equipment and components.

EQUIPMENT & MATERIALS

Equipment and Materials Competitors Must Supply:

Pencil	Measuring tape (metric)	Side cutters
Long nose pliers	Flat screwdrivers	Water pump pliers
Hacksaw and blades	Linesman pliers	Crescent wrench
Claw hammer	Robertson screwdriver(black/red/green)	Philips screwdriver
Wire strippers	Electricians' knife (no snap off blades)	5/8" Auger bit
Tapping tools (6/32 & 8/32)	Magnetic torpedo level	Half round or round file

Equipment and Materials Supplied by the Committee:

Cordless Drills (Competitors must use drills provided by the Committee)	Conduit benders
Ladders	Canadian Electrical Code – current edition (will be available for use)

COMPETITION SPECIFIC RULES

The following Competition Specific rules along with SCA's overall Policies and Procedures provide specific details in competition areas that may vary from one another. Any additional contest rules will be reviewed during the Competitor Orientation.

Topic/Task	Contest Specific Rule
Use of Technology	Competitors are not allowed laptops, tablets, cameras, cell phones, ear buds, calculators or other personal electronics in the competition area unless specified by the committee for certain tasks.
Use of Artificial Intelligence (AI)	Competitors cannot use AI to develop/generate any of the submitted work for any aspects of the competition.
Equipment	<ol style="list-style-type: none"> 1. No additional power tools or power tools accessories will be allowed during the competition. 2. Any tool or equipment not contained in the contest description will be inspected and approved/removed by committee member.



JUDGING CRITERIA

- Observance of Occupational Health and Safety rules
- Observance of Canadian Electrical Code regulations
- Interpretations of diagrams, plans and estimates
- Installation techniques
- Planning and organization of work
- Choice and economical use of materials
- Installation techniques: location of devices and conduit
- Verification of function
- Identification of circuit breakers
- Connection of conductors
- Housekeeping

TIE BREAKING PROCESS

Compare overall time used by competitors to complete the project.

RELATED CAREER AND TECHNOLOGY STUDIES COURSES

Descriptions of all modules are located at the following website:

<https://education.alberta.ca/career-and-technology-studies/programs-of-study/>

CLOTHING REQUIREMENT

It is important that competitors present a professional image and appearance. Appropriate work clothing must be worn to compete. All clothing must be neat and 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.



SAFETY REQUIREMENTS:

Competitors must provide their own safety equipment (all equipment must be CSA approved). Safety must be worn at all times on the competition site. No contestant will be allowed to take part in the competition if they do not have the required equipment or if they do not follow the safety rules and regulations. Required safety equipment consists of:

- Hard hat
- Steel toed work boots
- Safety glasses or goggles
- Gloves

ADDITIONAL INFORMATION

Lunch: Lunch will be provided for all competitors. Unfortunately, all allergies may not be able to be accommodated for. Please connect with the local Regional Coordinator, Nancy Nicholle nancy.nicholle@keyano.ca, for more information.

Parking & Maps: Parking passes can be purchased through the **HONK Mobile App**. Current rates can be found at: [Parking | Keyano College](#). When parking, please be mindful of designated areas (“Reserved”, “Metered”, etc.)

Regulations & Policies: View the Skills Canada Alberta Regional Regulations & Policies here <https://skillsalberta.com/competition/regulations-and-policies/>

Skillz & Thrillz - Alberta's Trade & Tech Youth Podcast: Our talented alumni share tips and tricks on how to succeed in competitions and your career! Their insights can help you prepare for your Skills journey, and who knows, you might just be a future guest! <https://skillsalberta.com/student-resources/skillz-thrillz-albertas-trade-tech-youth-podcast/>

REGIONAL COMMITTEE MEMBERS

Dawn Ohama	James Lamson
Danna Hurley	