



2025 Wood Buffalo Regional Skills Canada Competition

Contest Description

Keyano College (8115 Franklin Ave, Fort McMurray)

April 3, 2025

EVENT: Electrical Installations		LEVEL: Secondary
DURATION OF CONTEST: 6HRS		LOCATION: CC 108, Keyano College, Clearwater Campus
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 – 11:30AM	
LUNCH	11:30AM - 12:00PM	
COMPETITION	12:00PM – 3:00PM	
AWARDS CEREMONY INFORMATION: Elements Dining E102, Keyano College 4:00pm		

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.

EQUIPMENT & MATERIALS

Equipment and Materials Competitors Must Supply:

Pencil	Long nose pliers
Hacksaw and blades	Claw hammer
Wire strippers	Tapping tools (6/32 & 8/32)
Measuring tape (metric)	Flat screwdrivers
Linesman pliers	Robertson screwdriver (black/red/green)
Electricians knife (no snap off blades)	Magnetic torpedo level
Side cutters	Water pump pliers
Crescent wrench	Philips screwdriver
5/8" Auger bit	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	Code Book 2021

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.

ADDITIONAL INFORMATION

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 for more information.

Regulations & Policies: A copy of the Skills Canada Alberta Regional Regulations & Policies can be found at the following link: <http://www.skillsalberta.com/policies-and-procedures>

COMMITTEE MEMBERS

Dawn Ohama	Elissa Campbell	Dave Bates
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