

2021 PROVINCIAL SKILLS CANADA COMPETITION



CONTEST DESCRIPTION

CONTEST AREA: ELECTRICAL INSTALLATIONS			LEVEL: Secondary
COMPETITION SCHEDULE:			LOCATION: COMPETITOR'S SCHOOL. SEE COMPETITION FORMAT INFORMATION BELOW
Registration Orientation	Thursday, April 22	8:15-8:30AM 8:30-9:00AM	
Competition	Thursday, April 22	9:00-3:00	
Project Judging Submission Deadline:	Thursday April 22	BY 5:00pm	
DURATION: 5.0 HOURS			REGIONALIZED: NO
<p>COMPETITION FORMAT: (VIRTUAL/ IN SCHOOL)</p> <p>All secondary competitors will be competing with in their school environment and must arrange in advance with a teacher for a safe competition location, according to their school's Covid-19 safety policies. They will need to prepare their competition space with all of the required tools, equipment, materials, and technology (as listed below) that will be needed to complete the competition. Teachers and competitors will need to work together to ensure the competitor is ready for success on their competition day.</p> <p>Each competitor must have a teacher/ supervisor available throughout the day, in case of incident. (Teacher/Supervisor must be present at the competition orientation.)</p> <p>Competitors and Teachers should be prepared to receive additional information about the competition projects, livestreams, shipping, etc. prior to the competition. Please ensure you are double checking for emails from Skills, including checking junk mail.</p>			
<p>WEBEX LIVESTREAMS:</p> <p>Competition Orientation: The competition will begin with a virtual orientation. Competitors will join the assigned videoconference link that will be emailed to all registered competitors. Camera's MUST be on and competitors visible on the camera during the orientation. After the orientation, competitors are able to shut their cameras off once the competition has started.</p>			

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ECAA
Electrical Contractors
Association of Alberta



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PROJECT SUBMISSION DEADLINE: THURSDAY, APRIL 22, 2021 BY 5:00 PM

PROJECT SUBMISSION LINK:

- <https://form.jotform.com/SkillsAB/2021PSCC>
- Multiple files can be uploaded at once, each file has a maximum size of 1G. If file sizes are larger than 1G, please follow alternate instructions through the submission link.

ACCEPTED FILE TYPE: pdf, doc, docx, xls, xlsx, csv, txt, rtf, html, zip, mp3, wma, mpg, flv, avi, jpg, jpeg, png, gif. If you would like to submit a different type of file, please place it in a zip folder.

To create a zip folder – Select all the files that you would like to submit and right-click your mouse, a menu will open, select Send To, and then click on Compressed (zipped) folder. A zip file will then be created containing your submission documents.

Please note: Late submissions sent after the date and time specified above will not be accepted.

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 Checklist: It is the responsibility of each competitor and teacher to review the Safety Checklist (<https://skillsalberta.com/additional-2021-competition-resources/>) in advance of the competition and ensure they are able to meet all safety requirements. During the orientation, the safety checklist will be formally reviewed.

AWARDS CEREMONY INFORMATION: Please join us for a live virtual awards ceremony on May 13th at 6:30PM.

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.



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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 current CEC (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 current CEC. Wiring will be fished/pulled to various circuits.
- Basic conduit bending (EMT & PVC) including offsets, saddles, 90-degree bends and strapping.

PROJECT DESCRIPTION

Competitors will work in a 2-sided booth installing materials as described in the Contest Introduction. The project diagram will be provided prior to the competition.

SUBMISSION REQUIREMENTS

Teachers will act as a Judge for the competition for their competitor(s). Judging sheets and project information will be released to teachers prior to the competition.

EQUIPMENT & MATERIALS

Skills Canada Alberta Provided Tools, Materials, and Equipment

Cordless Drills (Competitors must use drills provided)	3/4" auger bit
#2 Robertson driver bit	Project Plywood Walls
1/2" Conduit Bender	



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School/Competitor Provided Tools, Materials, and Equipment*

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

*Competitors and schools will need to work together to arrange for the tools, equipment, and materials provided by the competitor. If a competitor and/or school is not able to procure a certain item, please contact mikes@skillsalberta.com to inquire if additional arrangements can be made.

SHIPPING INFORMATION

Any tools and equipment provided by Skills Canada Alberta will be shipped to your school prior to the competition. If you do not receive your shipment by this time, please contact: whitneyk@skillsalberta.com.

VIRTUAL COMPETITION RESOURCE SUPPORT FORM

A \$40 competition resource subsidy is available to all competitors. It is intended for items that were purchased to support competitors (e.g. food supplies, materials, technical equipment, tools, etc.). The form can be accessed at the following link: <https://skillsalberta.com/additional-2021-competition-resources/>



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JUDGING CRITERIA

• Operation	25%
• Equipment Installation	15%
• Measurements	15%
• Cable Installation	10%
• Tubing & Conduit	10%
• Connection of Conductors	15%
• Health, Safety & Housekeeping	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 and clean, and free of rips and tears. Casual wear such as shorts and open toed shoes/sandals will not be permitted. No loose-fitting clothes or jewelry.

ADDITIONAL INFORMATION

Skills Canada Alberta Regional and Provincial Rules and Regulations

[Regional and Provincial Rules and Regulations](#)

Competitor Registration

Competition Registration will open online at <https://portal.skillsalberta.com/> on January 12, 2021 at 8:30AM for the Regional Skills Canada Competition and on January 14, 2021 at 8:30 AM for the Provincial Skills Canada Competition (PSCC)



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Lunch

Lunch will be provided by Skills Canada Alberta

Virtual Awards Ceremony

The Virtual Awards Ceremony will take place **Thursday, May 13th at 6:30PM**. A link will be made available on the website with additional information.

Ethical Conduct

We recognize that participants will be competing individually in their own unique environments. We expect all competitors to compete fairly, respecting and abiding by the established rules in the true spirit of Skills Canada Alberta.

Letter of Participation

Competitors who participate in the 2021 Provincial Skills Canada Competition are eligible for a Letter of Participation that can be downloaded on the Registration Portal after the competition ends.

COMMITTEE MEMBERS

Chuck Zylla - NAIT	Dana Alisat - Skyline Electric
Ronald Stocks – Red Deer College	David Bates - Lakeland College
Amanda Hennessey - Medicine Hat College	David Peard - SAIT
Elaine Cope - AIT	Branden Terry – Medicine Hat College
Tim Froehler – Red Deer College	Shane Hanson – Red Deer College
Dawn Ohama – Keyano College	

