

2022 SECONDARY SKILLS CANADA ALBERTA VIRTUAL COMPETITION

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CONTEST DESCRIPTION

<p>CONTEST AREA: ELECTRICAL INSTALLATIONS</p>	<p>LEVEL: Secondary</p>
<p>COMPETITION SCHEDULE: Competition Date: Thursday April 14th, 2022 Duration: 5 Hours Mandatory Registration – 8:15AM Mandatory Orientation - 8:30AM-9:00AM Competition 9:00AM-3:00PM Lunch 12:00-1:00PM Submission due – 5:00PM</p>	<p>LOCATION: COMPETITOR’S SCHOOL. SEE COMPETITION FORMAT INFORMATION BELOW</p> <p>LIVESTREAMED: YES – COMPETITORS WILL BE REQUIRED TO BE ON CAMERA THROUGH THE ENTIRE COMPETITION</p>
<p>COMPETITION FORMAT: (VIRTUAL/ IN SCHOOL) All secondary competitors will be competing within 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 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: Competition Registration and Orientation: The competition will begin with a mandatory virtual registration. Competitors will join the assigned link that will be emailed to all registered competitors and registering teachers in advance. This will be the time that competitors are able to check in and ensure sound, cameras, and tech are working appropriately. The registration will be followed by competition orientation. Camera’s MUST be on and competitors visible on the camera during the orientation.</p>	

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Competition Livestream: Competitors must remain on camera through their entire competition. Camera's MUST be on and competitors visible on the camera, as well as mics working. Competitors must consider their camera angle and lighting in advance of the competition. It is the competitor's responsibility to ensure they are prepared for the competition livestream.

PROJECT SUBMISSION DEADLINE: April 14th by 5:00PM

PROJECT SUBMISSION LINK:

- <https://form.jotform.com/SkillsAB/2022SCAVC>
- 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 file – 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.

Submissions will be due within 15 minutes of the end of competition time. 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 in advance of the competition to ensure all safety requirements are met prior to the competition. During the official competition orientation, the Safety Checklist will be formally reviewed with competitors. The Safety Checklist is posted as a sperate document with the Contest Description.

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

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 judges for the competition for their competitor(s). Judging sheets and project information will be released to teachers prior to the competition.

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EQUIPMENT & MATERIALS

Skills Canada Alberta Provided Tools, Materials, and Equipment

Project Plywood Walls	½" Conduit Bender	All Required materials for the project
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Any tools and equipment provided by Skills Canada Alberta will be shipped to your school prior to the competition. If you have any questions, please contact: mikes@skillsalberta.com.

Competitor/School 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	3/4" auger bit	Cordless Drill
#2 Robertson driver bit			

*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.

JUDGING CRITERIA

- Operation 25%
- Equipment Installation 15%
- Measurements 15%
- Cable Installation 10%

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• Tubing & Conduit	10%
• Connection of Conductors	15%
• Health, Safety & Housekeeping	10%
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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 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

Registration for Secondary Skills Canada Alberta Virtual Competition will open online at <https://portal.skillsalberta.com/> on January 26, 2022 at 8:30 AM.

Lunch

Lunch will NOT be provided.

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Virtual Awards Ceremony

The Virtual Awards Ceremony will take place **Friday, May 6th 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 2022 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	



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