

# 2022 POST-SECONDARY PROVINCIAL SKILLS CANADA COMPETITION



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## Contest Description

Edmonton Expo Centre, Edmonton  
May 4 & May 5, 2022

<b>EVENT:</b> Heavy Vehicle Technology	<b>LEVEL:</b> Post-Secondary		
<b>WORLDSKILLS TRADE #:</b> 49	<b>LOCATION:</b> Hall C, Edmonton Expo Centre, Edmonton		
<b>DURATION:</b> 12 Hours (Two Days)	<b>COMPETITORS:</b> 12 Maximum		
<b>COMPETITION SCHEDULE:</b>			
<b>May 4:</b>	<b>May 5:</b>		
<i>ORIENTATION</i>	8:00 AM-8:30 AM	<i>COMPETITION (4 of 6)</i>	8:30 AM-10:30 AM
<i>COMPETITION (1 of 6)</i>	8:30 AM-10:30 AM	BREAK	10:30 AM-11:00 AM
BREAK	10:30 AM-11:00 AM	<i>COMPETITION (5 of 6)</i>	11:00 AM-1:00 PM
<i>COMPETITION (2 of 6)</i>	11:00 AM-1:00 PM	LUNCH	1:00 PM-2:15 PM
LUNCH	1:00 PM-2:15 PM	<i>COMPETITION (6 of 6)</i>	2:15 PM-4:15 PM
<i>COMPETITION (3 of 6)</i>	2:15 PM-4:15 PM	DEBRIEFING / PHOTOS	4:15 PM-5:15 PM

*Please Note: Due to the uncertainty caused by COVID 19, the PSCC could be subject to change at any time based on the public health context. 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

Provide competitors an opportunity to display their skills, knowledge, and professionalism as they safely and efficiently maintain or diagnose and repair any part of the power train, including its control systems, in mobile or stationary industrial equipment.

## SKILLS AND KNOWLEDGE TO BE TESTED

Use hand, power, and diagnostic tools to safely and competently carry out maintenance or diagnosis and repair according to manufacturer's specifications.

Read and understand work orders, prepare estimates, and interpret technical service information.

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## PROJECT DESCRIPTION

Competitors will complete practical tasks in the following categories relating to on-road, off-road, mobile, and stationary heavy equipment. The tasks are designed to evaluate the competitor's ability to safely and efficiently maintain or diagnose and repair heavy equipment (on-road and off-road, mobile and stationary). Competitors have equal opportunity to research, practice, and refine their knowledge and skill prior to the competition. Draft versions of the tasks will be posted online at a later date so competitors can review and train leading up to the Provincial Skills Canada Competition. Please keep referring back to this document for updates.

The actual tasks will not be disclosed to the competitors until the day of the Provincial Skills Canada Competition.

**Due to unforeseeable uncertainties, competition time allocation is subject to change.**

Each 2-hour task is valued at 100 points:

- |                      |                                      |           |
|----------------------|--------------------------------------|-----------|
| 1. <b>100 points</b> | Hydraulic Systems                    | (2 hours) |
| 2. <b>100 points</b> | Engine Systems                       | (2 hours) |
| 3. <b>100 points</b> | Drive-Train Systems                  | (2 hours) |
| 4. <b>100 points</b> | Electrical Systems                   | (2 hours) |
| 5. <b>100 points</b> | Steering, Braking, and Undercarriage | (2 hours) |
| 6. <b>100 points</b> | Workplace Practices                  | (2 hours) |

## EQUIPMENT & MATERIALS

### Equipment and Materials Competitors Must Supply:

- CSA Approved Footwear (Grade 1 protective toe)
- CSA Approved Hearing Protection
- CSA Approved Clear (non-tinted) Safety Glasses
- Shop coats (smocks) or coveralls (in good and clean condition)

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Computers  
for Schools



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## Equipment and Materials Supplied by the Committee:

Due to unforeseeable uncertainties, competition material, suppliers, and equipment are subject to change.

- Caterpillar equipment
- Caterpillar Electronic Technician (ET)
- Caterpillar Service Information System (SIS)
- Detroit Diesel engines
- Detroit Diesel Diagnostic Link software
- Freightliner trucks
- DTNA Connect Freightliner software
- All required tools and diagnostic equipment
- Multi-meters (Competitors may supply their own)
- Flashlights (Competitors may supply their own)
- Computer accessible service information
- Allison driveline software

## JUDGING CRITERIA

The following judging criteria are weighted according to the task:

- a) Use of safety equipment & safe and clean workspace
- b) Use and interpretation of service manuals & schematic diagrams
- c) Logical order of repair
- d) Appropriate use of tools
- e) Maintenance or repair of components or systems
- f) Precision measurement
- g) Superior Workmanship
- h) Identification of faults, codes, or components
- i) Communication of maintenance or repair process

## TIE-BREAKING PROCEDURE

In the event of a tie, the competitor with the higher safety evaluation in the practical tasks will be awarded the higher ranking.

## 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 or act in an unsafe manner that can cause harm to themselves or others.

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## CLOTHING REQUIREMENT

To participate, competitors must wear clean, rip-free work clothing that fits well--no loose-fitting clothing or casual wear such as shorts or open-toed shoes or sandals.

Competitors must not wear jewelry (rings, bracelets, watches, necklaces, pins), ties, lanyards, ID badges, or anything attached to them or dangling from them that might get caught in a piece of moving equipment.

Mandatory:

- CSA-approved footwear (Grade 1 protective toe),
- CSA-approved hearing protection, and
- CSA-approved clear (NON-tinted) safety glasses.

## ADDITIONAL INFORMATION

Skills Canada Alberta Regional and Provincial Rules and Regulations

[Regional and Provincial Rules and Regulations](#)

*Competitors must be prepared to adhere to all public health measures in place at the time of the PSCC.*

### Lunch

Lunch for competitors will be provided by Skills Canada Alberta.

### Parking & Venue Maps

<http://edmontonexpocentre.com/attend/parking/>

### Competitor Registration

Competitor Registration for the PSCC will take place on Tuesday May 3, 2022 from 9:00am-6:00pm outside Hall B of the Edmonton EXPO Centre. Please note you will be required to present your COVID-19 proof of vaccination.

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## Virtual Awards Ceremony

The Virtual Awards Ceremony will take place **Friday, May 6<sup>th</sup> at 6:30pm**. A link will be made available on the website with additional information prior to the ceremonies.

## Team Alberta Information

Team Alberta (Post-Secondary) will be selected at the PSCC happening on May 4 - May 5, 2022. Top eligible medalists will compete at the Skills Canada National Competition (SCNC) May 24-28, 2022 in Vancouver, BC. It is recommended that competitors review the SCNC contest description to be familiar with the national contest description and project at <http://www.skillscanada.com/>.

If a competitor is not able to attend the SCNC, competitors **MUST** notify Katherine Kupchenko [katherinek@skillsalberta.com](mailto:katherinek@skillsalberta.com) prior to the start of competition. If a gold medalist is not able to attend the SCNC, the next top-ranking individual will be asked to participate.

## Test Project change at the Competition

Where the Test Project has been circulated to Competitors in advance, PTC can change a maximum of 30% of the work content.

Please contact Whitney Koop [whitneyk@skillsalberta.com](mailto:whitneyk@skillsalberta.com) if you have any questions regarding the Contest Description.

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## COMMITTEE MEMBERS

Moe Tarrabain	Daimler Trucks	Edmonton
Darcy Williamson	Wajax Power Systems	Calgary
Patricia Nelson	Finning Canada	Red Deer
Morgan Garnett	Finning Canada	Edmonton
Allan Fenerty	Finning Canada	Fort McMurray
Sean Proulx	First Truck Centre	Edmonton
Bryce McCracken	First Truck Centre	Edmonton
Gough Palmer		Red Deer
Joe Mulder		Edmonton
Marc Lalonde	Alberta Industry Training	Edmonton
Gavin Winter	Grand Prairie Regional College	Fairview
Chester Parisian	Keyano College	Fort McMurray
Peter Ling	Lakeland College	Vermilion
Bill Petrosenko	Red Deer College	Red Deer
Mike Schell	Olds College	Olds
Jason Finnigan	Olds College	Olds
Keon Clift	Medicine Hat College	Medicine Hat
Walter Michel	Lethbridge College	Lethbridge
Mike Hughes	SAIT Polytechnic	Calgary
Bobby Haraba (Chair)	NAIT	Edmonton

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