

SCOPE DOCUMENT

Competition year	2025
Competition Location	Abbotsford, BC
Trade Number	94
Trade Name	Heavy Equipment Technology
Level	Post-Secondary

1 INTRODUCTION

1.1 Purpose of the challenge.

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

1.2 Duration of Contest: 8 hours April 16th, 2025

Schedule			
Orientation	7:30am - 8:00am	Competition (4 of 6)	12:00pm - 1:00pm
Competition (1 of 6)	8:00am - 9:00am	Break	1:00pm - 1:15pm
Break	9:00am - 9:15am	Competition (5 of 6)	1:15pm - 2:15pm
Competition (2 of 6)	9:15am - 10:15am	Break	2:15pm - 2:30pm
Break	10:15am - 10:30am	Competition (6 of 6)	2:30pm - 3:30pm
Competition (3 of 6)	10:30am - 11:30am	Debrief / Photos	3:30pm - 4:00pm
Lunch	11:30am - 12:00pm		

1.3 Skills and knowledge to be tested.

Use hand, power and diagnostic tools to safely and competently carry out repairs according to manufacturer's specifications.
Read and understand work orders, interpret technical manuals and keep service records.

2 CONTEST DESCRIPTION

2.1 List of documents produced and timeline for when competitors have access to the documents.

Document	
Equipment models	At start of Lab
Cat engines and software	At start of Lab
Hydraulic training board	At start of Lab
Cat Model 262D3 skid steer loaders	At start of Lab
Meritor Drive axle assembly	At start of Lab

Track components from various machines	At start of Lab
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2.2 Tasks that may be performed during the contest.

Competitors will complete practical tasks in the following categories relating to on-road, off-road, mobile and stationary equipment. The tasks are designed to evaluate the competitor's ability to safely and efficiently maintain, diagnose and repair heavy equipment (on-road and off-road, mobile and stationary)

Diesel Engines	1 hour
Hydraulic Systems	1 hour
Electrical Systems	1 hour
Drive-Train Systems	1 hour
Work Place Practices	1 hour
Steering, Braking, and Undercarriage Systems	1 hour

3 EQUIPMENT, MATERIAL, CLOTHING

3.1 Equipment and material provided by Skills/Competences British Columbia

A variety of manufacturers equipment will be used along with the appropriate service information.

3.2 Equipment and material provided by the competitor

Optional: Competitors are allowed to bring their own multimeter and flashlight.

3.3 Required clothing (Provided by competitor)

Appropriate work apparel must be worn. (Clean coveralls or shop-coats in excellent condition, pants and shirts)
Clothing must not be loose-fitting and must not have drawstrings or dangling pieces.

4 SAFETY REQUIREMENTS

4.1 List of required personal protective equipment (PPE) provided by competitors

Note: Competitors will not be allowed to compete if these items are not brought and used.

PPE Equipment
Safety Glasses
CSA approved Safety shoes
Appropriate work apparel

4.2 List of required personal protective equipment (PPE) provided by

Skills/Competences British Columbia.

No Additional PPE will be supplied by Skills/Competences British Columbia

5 ASSESSMENT

5.1 Point Breakdown

POINT BREAKDOWN

Use of safety equipment and safe and clean workspace
Logical order of repair
Use and interpretation of technical information
Precision measurement
Fault finding
Appropriate use of tools
Maintenance or repair of components or systems
Communication of maintenance or repair process
Superior workmanship

6 ADDITIONAL INFORMATION

6.1 Consecutive translation

If consecutive translation is required on site, the Skills/Competences British Columbia Provincial/Territorial offices must advise Skills/Competences Canada National Secretariat a minimum of 1 month prior to the competition or this service might not be guaranteed.

6.2 Tie (No ties are allowed)

In the event of a TIE, the competitor with the higher safety related marks will be awarded the higher rank.

6.3 Competition rules

Please refer to the competition rules of the Skills British Columbia Competition.

7 BRITISH COLUMBIA PROVINCIAL TECHNICAL COMMITTEE MEMBERS

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