



2026 Territorial Skills Competition Contest Description

# Heavy Vehicle Technology

Post-Secondary

**Date:** April 16, 2026, 8:00 A.M.

**Location:** Yukon University HET shop (T030)

**Duration of contest:** 4 Hours

<b>1. SKILLS FOR SUCCESS FOR CAREERS IN SKILLED TRADES AND TECHNOLOGY.....</b>	<b>2</b>
<b>2. CONTEST INTRODUCTION.....</b>	<b>2</b>
<b>3. EQUIPMENT, MATERIAL, CLOTHING.....</b>	<b>3</b>
<b>4. HEALTH &amp; SAFETY.....</b>	<b>5</b>
<b>5. ASSESSMENT.....</b>	<b>6</b>
<b>6. ADDITIONAL INFORMATION.....</b>	<b>6</b>
<b>7. NATIONAL &amp; TERRITORIAL TECHNICAL COMMITTEES.....</b>	<b>7</b>

## **1. SKILLS FOR SUCCESS FOR CAREERS IN SKILLED TRADES AND TECHNOLOGY**

The Government of Canada has updated the previous Essential Skills framework to the new Skills for Success model in response to the evolving labour market and changing skill requirements. This model outlines nine fundamental skills Canadians need to thrive in work, education, training, and daily life.

Skills/Compétences Canada aims to highlight the importance of these skills, vital for success in trade and technology careers. Competitors can see how Skills for Success are integrated into contest descriptions, projects, and project documents. Recognizing these skills during the competition helps competitors match tasks with specific skills necessary for success and understand how these skills apply within their trade or technology programs and future careers.

The nine key Skills for Success, validated for workplace success, are:

1. Numeracy
2. Communication
3. Collaboration
4. Adaptability
5. Reading
6. Writing
7. Problem Solving
8. Creativity and Innovation
9. Digital

## **2. CONTEST INTRODUCTION**

### **2.1. Description of the associated work role(s) or occupation(s):**

[https://www.skillscompetencescanada.com/en/skill\\_area/heavy-vehicle-technology/](https://www.skillscompetencescanada.com/en/skill_area/heavy-vehicle-technology/)

### **2.2. Purpose of the Challenge**

Provide competitors with an opportunity to display their skills, knowledge, and professionalism as they safely and efficiently diagnose, repair, and maintain mobile and stationary industrial equipment.

### **2.3. Duration of Contest**

Competition duration will not exceed 6 hours. Competitors will begin at 9:00AM and have until 4:00PM to complete all of their tasks, including tidying their work station. Competitors will be given an hour break for lunch provided by Skills Canada Yukon.

### **2.4. Skills and Knowledge to be Tested**

- Use of safety equipment and safe and clean workspace

- Use and interpretation of technical information
- Logical order of repair
- Appropriate use of tools
- Accurate measurement
- Superior Workmanship
- Identification of faults, codes, or components
- Maintenance or repair of components or systems
- Communication of maintenance or repair process

### **2.5. Project Description**

Competitors will complete practical tasks in the following stations 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, diagnose, and repair heavy equipment.

- Station 1: Steering, Suspension and Brakes
- Station 2: Engine Systems
- Station 3: Hydraulic Systems
- Station 4: Electrical Systems

## **3. EQUIPMENT, MATERIAL, CLOTHING**

### **3.1. Equipment and material provided by Skills Canada Yukon:**

- All other equipment, materials and PPE will be provided by Skills Compétences Canada Yukon.

### **3.2. Below are the manufactures that may be used along with their service information:**

- Station 1: Western Star truck/tractor
- Station 2: Caterpillar engine
- Station 3: Bobcat skid steer
- Station 4: Kenworth truck or truck/tractor

### **3.3. Required Clothing Provided by the Competitor**

- Competitors must wear pants and a shirt plus either coveralls or a shop coat. All must be clean and in good condition. Clothing must not be loose-fitting and must not have drawstrings or dangling pieces.
  - CSA-approved safety footwear
  - Coveralls or appropriate work wear
  - Mechanics gloves

## **4. HEALTH & SAFETY**

### **4.1. Safety Orientation**

Upon arrival at the Skill area, Competitors will participate in a Safety workshop, and they will be expected to work and maintain a safe working area during the competition. Any competitor breaking any health, safety, and environmental rules, may be required to undertake a second safety workshop, this will not affect the Competitor's competition time.

List of required personal protective equipment (PPE) provided by Skills Canada Yukon:

- Safety glasses
- Ear plugs
- Nitrile gloves

**NOTE:** Competitors who do not have the required protective equipment/clothing will not be allowed to participate in the competition

**4.2. Field Level Risk Assessment**

SCY will complete a Field Level Risk Assessment for every competition area in addition to a full walkthrough with a representative from Yukon Workers Safety and Compensation Board to identify potential hazards and create solutions. The primary goal of an FLRA is to identify and mitigate potential risks to ensure the safety of competitors.

**5. ASSESSMENT**

**5.1. Point Breakdown Example:**

Station 1 Skills Evaluated	Task 1
Use of safety equipment & maintaining a safe and clean workspace	5.50
Use and interpretation of service manuals & schematic diagrams	2.0
Logical order of operations	4.5
Proper use of tools	6.0
Accurate measurements	3.5
Superior workmanship	3.5
<b>Station 1 Total</b>	<b>25.0</b>

**5.2. Qualifying for the Skills Canada National Competition**

Competitors can secure a win in their specific competitions by demonstrating exceptional skills and abilities, and meeting or exceeding established evaluation

criteria. However, qualification for the Skills Canada National Competition is not solely determined by winning at the territorial level.

The decision to advance further depends on additional factors, such as the National Technical Committee's (NTC) assessment and/or the judges' discretion, which may take into account specific criteria beyond just event performance. These additional criteria could encompass a competitor's adherence to safety protocols, ethical conduct, teamwork, or overall professionalism, ensuring that those who represent the Territory at the national level not only excel in their technical skills but also embody the values and standards upheld by Skills Canada.

**\*Please note:** Not all territorial contest areas are eligible for the Skills Canada National Competition. Please refer to the SCNC website to determine if your skill area/level is eligible to compete.

## **6. ADDITIONAL INFORMATION**

### **6.1. Competition Rules**

Refer to the competition rules of the Skills Canada Yukon Territorial Competition which can be found on our website.

### **6.2. Ties**

- Tiebreaker #1 – the competitor with the highest score in the Safety Criteria will be declared the winner.
- Tiebreaker #2: If a tie remains, the competitor with the highest score in the Superior Workmanship criteria will be declared the winner.
- Tiebreaker #3: If a third tie occurs, the competitor with the highest score in the Accurate Measurements criteria will be declared the winner

### **6.3. Accessibility & Accommodations**

Skills Canada Yukon is committed to providing a barrier-free environment which allows everyone to participate in our programs and competitions. We strive to be fully inclusive to all manner of disabilities and identities. SCY provides the opportunity for any competitor to disclose a disability on our competition registration form. Requests for accommodations must be made at least 3 weeks prior to the competition date.

## **7. NATIONAL & TERRITORIAL TECHNICAL COMMITTEES**

- 7.1. The Yukon Territorial Technical Committee member for Heavy Vehicle Technology is Doug McRae - Senior Instructor, Yukon University. Email: [dmcrae@yukonu.ca](mailto:dmcrae@yukonu.ca)
- 7.2. The Yukon National Technical Committee member for Heavy Vehicle Technology is Kelsey Schmidt – Service Supervisor – Nors Construction Equipment Canada GW Ltd. Email: [kschmidt@nors.com](mailto:kschmidt@nors.com)
- 7.3. The Technical Advisor for Heavy Vehicle Technology is Chris Dunbar - Manager, Mechanical Operations – Yukon Government. Email: [Chris.Dunbar@yukon.ca](mailto:Chris.Dunbar@yukon.ca)
- 7.4. Please contact [yukon@skillscanada.com](mailto:yukon@skillscanada.com) with questions or concerns related to the competition.