



# 21ST ANNUAL **TERRITORIAL COMPETITION**

## CONTEST DESCRIPTION DOCUMENT

### 94 – Heavy Duty Equipment Mechanic Post-Secondary Level

(NOTE: Scope may change without notice)

**PURPOSE OF THE CHALLENGE**  
**6 HOURS**

**DURATION:**

Assess the contestant's ability in the field of Heavy Equipment Technician. Contestants must demonstrate their knowledge of reading and interpreting repair manuals.

### SKILLS AND KNOWLEDGE TO BE TESTED

#### **PRACTICAL:**

- Axle bearing Preload/Brake adjustment
- Electrical Trouble Shooting
- Valve/Injector adjustment
- Machine Hydraulics' identification

#### **THEORY:**

The theory portion of the contest is limited to the knowledge required to complete practical work.

These knowledge requirements are included in the contest for assessment purposes and involve the following aspects:

- Hand Tools
- Power Train

- Fuel Injection
- Brakes

Contestants must be indentured as an apprentice and have started 1st year of technical training.

## ESSENTIAL SKILLS

Essential skills are used in nearly every job to varying degrees. They provide a foundation for learning all other skills and enable people to evolve with their jobs and adapt to workplace change. Good Essential Skills will help you understand and remember concepts introduced in technical training. The level of Essential Skills required for most trades is as high or higher that for many office jobs.

Of the nine skills that have been identified and validated as key essential skills for the workplace, this contest involves the following:

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Continuous Learning     | <input type="checkbox"/> Numeracy           | <input checked="" type="checkbox"/> Thinking |
| <input type="checkbox"/> Digital                 | <input type="checkbox"/> Oral Communication | <input type="checkbox"/> Working with Others |
| <input checked="" type="checkbox"/> Document Use | <input type="checkbox"/> Reading Text       | <input type="checkbox"/> Writing             |

## EQUIPMENT, TOOLS, SUPPLIES, AND CLOTHING

### PROVIDED BY THE COMPETITOR:

- Work coveralls
- CSA approved steel-toed boots
- Pencils and Pens
- Flashlight
- Mechanics Gloves
- Nitrile Gloves

Note: Contestants who do not have the required protective gear will not be allowed to participate in the contest.

### PROVIDED BY THE COMMITTEE:

- Safety goggles
- Bump hats
- Ear plugs or protectors
- Hand tools
- Jack stands
- Shop manuals

## **SAFETY REQUIREMENTS**

Failure to comply with safety regulations may result in disqualification or removal of the competitor from competition.

## **POINT BREAKDOWN / 100 TOTAL**

Repair procedures according to manual	50%
Proper Use of Hand Tools and Safety	25%
Written Exam	25%

## **TECHNICAL COMMITTEE MEMBERS - JUDGES**

**Tech Chair- TBA**

Judges: TBA