



## 13th TERRITORIAL SKILLS COMPETITION - SCOPE DOCUMENT

### 94 - HEAVY DUTY EQUIPMENT MECHANIC Post-Secondary Level

#### PURPOSE OF THE CHALLENGE

**DURATION: 6 HOURS**

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.

#### EQUIPMENT, TOOLS, SUPPLIES, AND CLOTHING

##### **Provided by the competitor:**

- Work coveralls
- CSA approved steel-toed boots

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.

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

## 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

**Bob Kenny, Tech Chair**

BHP Billiton – Ekati Diamond Mine