ELECTRICAL SYSTEM TASK / TÂCHE RELATIVE À L'INSTALLATION ÉLECTRIQUE

HEAVYEQUIPMENT SERVICES MÉCANIQUE DE MACHINÈRIE LOURDE

POST - SECONDARY / NIVEAUX POSTSECONDAIRE

killsCompétences

anada Edmonton2018



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SKILLS CANADA NATIONAL COMPETITION OCMT

SCNC



	Electrical System TASK	(5 of 6)
Competitor number	Start time	
Judge's name	Finish time	
	Competition Overview	
Time limit: Equipment:	2 hours Freightliner Truck	
Number of tasks:	-	
Task 1: Diagnose faulty lighting system.		Value 70 %
Task 2: Evaluate inoperative heater controls.		Value 30 %

General Instructions:

The National Technical Committee (NTC) has all the materials you will need.

If you are unsure about any procedure, you may ask your judge for clarification. Marks may be deducted if the judge decides you should know the procedure.

Your judge will operate the machine for you for testing purposes.

Please be very specific with what you would like them to do.

Task 2: Evaluate inoperative heater controls.

Before you start, you must go through the following Hazard Assessment with your judge so that you will be able to work safely.







Hazard Assessment:

This Hazard Assessment is to discuss the following **6 hazards** and the counteractive measures you must take.

Hazard 1: You might slip while getting into and out of the cab.



- Use three points of contact at all times.
- Always face the cab.

Hazard 2: Shorting electrical connections might damage electrical components.



• Do not short electrical components together.

Hazard 3: Sparks or ignition sources may cause the battery to explode.

- Do not generate sparks or bring ignition sources near the batteries.
 - Wear a face shield.

Hazard 4: Battery electrolyte (sulfuric acid) is corrosive.



• Wear a face shield, gloves and an apron when handling electrolyte.

Hazard 5: Moving components on the engine can catch loose clothing and hurt you.



 Keep hands clear of moving components such as fan, pulleys, and belts.

Hazard 6: Power steering system can create extreme forces that could crush you.



 Stay clear and keep others clear of pinch zones near the steering tires and steering linkages.

I have read this hazard assessment and the judge has explained it to me.

I understand the hazards and I will take precautions to avoid them.

Competitor's name

Judge's name _____

Date _____



Evaluation:

Number of marks possible: 16.7

Skills evaluated	
a. Use of safety equipment. Safe and clean workspace	
b. Use and interpretation of service manuals & schematic diagrams	
c. Logical order of repair	
d. Proper use of tools	
e. Precise adjustment of components	
f. Accurate measurements	
g. Superior Workmanship	
h. Identification of faults, codes, or components	



If you cannot proceed with a task, ask your judge for assistance.







Task 1 of 2: Diagnose faulty lighting system.Value 70 %

- 1. Follow the manufacturer's procedures to safely, appropriately, and accurately:
 - Diagnose faulty lighting system.
- 2. In point form; briefly record your findings and any adjustments or components that were out of specifications.



If you cannot proceed with a task, ask your judge for assistance.







Task 2 of 2: Evaluate inoperative heater controls.Value 30 %

- 3. Follow the manufacturer's procedures to safely, appropriately, and accurately:
 - Evaluate inoperative heater controls.
- 4. In point form; briefly record your findings and any adjustments or components that were out of specifications.









Congratulations!

You have completed the required tasks.

Once you have completed this topic you must clean up your workstation and return any tools/materials.

Use the space below for comments.

Return this competition form to your judge for evaluation.

