



DRIVE TRAIN TASK / TÂCHE RELATIVE À LA TRANSMISSION

HEAVY EQUIPMENT SERVICES

MECANIQUE DE MACHINERIE LOURDE

POST-SECONDARY /
NIVEAU POSTSECONDAIRE

Competitor number _____ Start time _____

Judge's name _____ Finish time _____

Competition Overview

Time limit: 2 hours

Equipment: Meritor drive axle

Number of tasks: 2

Task 1: Remove a drive-axle assembly from the axle housing. **Value 50%**

Task 2: Install another drive-axle assembly into the axle housing. **Value 50%**

General Instructions:

The judge 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.

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 **4 hazards** and the counteractive measures you must take.

Hazard 1: Heavy objects may fall off of the bench onto your feet.



- Insure all objects on the workbench will not be accidentally knocked off.
- Keep your work area neat.

Hazard 2: Touching lubricating fluids may irritate skin.



- Latex gloves and wiping cloths are available.

Hazard 3: Sharp edges from the parts can cut skin.



- Keep hands clear of sharp edges.

Hazard 4: Lifting heavy components can injure your back.



- A portable lifting crane will be available to lift heavy items.
- The judge will be available to help lift items if necessary.



Ask
Information

*If you do not quite understand or are unsure about the hazards,
please ask your judge for assistance.
No marks will be deducted for asking about hazards.*

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 (Documentation)
h. Identification of faults, codes, or components



Ask
Information

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

Task 1 of 2: Remove a drive-axle assembly from the axle housing. Value 50 %

Follow the manufacturer's procedures too safely, appropriately, and accurately:

1. Remove a drive-axle assembly from the axle housing.
2. In point form; briefly record your findings or components that were out of specifications.



Ask
Information

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

Task 2 of 2: Install another drive-axle assembly into the axle housing. Value 50 %

Follow the manufacturer's procedures too safely, appropriately, and accurately:

1. Install another drive-axle assembly into the axle housing.
2. In point form; briefly record your findings or components that were out of specifications.



Ask
Information

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

