Test Project

Module 3 – Electrical and Electronic Systems

Heavy Vehicle Technology

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This module includes the following document:

1. TP Skill 49 repair order form (supplied).
2. Pre-rental Equipment Inspection form (supplied)

Tasks

Complete the following two tasks in any order. You may begin with either task one or task two.

If you complete both tasks early or can no longer progress, give your documents to your judge and return to the Competitors briefing room to await the next station rotation.

Task 1

Rental unit returned: Complaint that the machine needs to be boosted or jump started every morning. Now the machine will not start or power up at all.

For marking purposes, you must show the judge what you are doing as you work (for example, measurements, fault locations torque wrench settings, adjustments, and conclusions).

Complete the following:

1. Inspect the machine – diagnose and repair to OEM specifications, the cause of the complaint.
2. Using the supplied repair order form, document in proper industry standard service reporting format what you diagnosed and what was required to return the system to its normal condition.

Task 2

Dealer Request: Machine is going out on rental, complete the multi-point pre-rental inspection form. Record any issues and diagnose & repair any faults that are found.

For marking purposes, you must show the judge what you are doing as you work (for example, measurements, fault locations torque wrench settings, adjustments, and conclusions).

Complete the following:

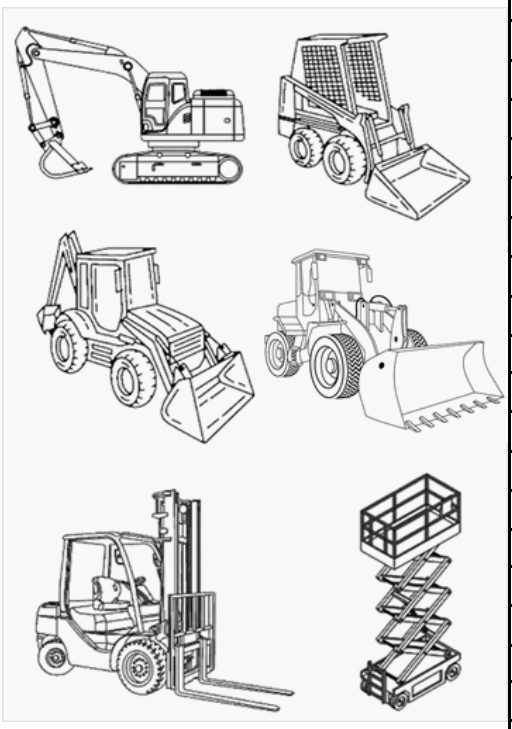
1. Inspect the machine using the supplied pre-rental inspection form, inspect, diagnose and repair to OEM specifications, the cause of any issues found during inspection.
2. Using the supplied repair order form, document in proper industry standard service reporting format what you diagnosed and what was required to return the system to its normal condition.

Equipment, machinery, installations, and materials required

No requirements to post.

Pre-rental Equipment Inspection Form

Judge:	Competitor Country:	Date:	Hours:
Make:	VIN/PIN/ESN:	Model:	

Select Machine:		Legend:	Condition		
			Pass	Fail	N/A
		**General Exterior**			
		Paint and Decals			
		Damage, rust, dirt, or debris			
		Engine System			
		Air intake system			
		Fluid levels and leaks			
		Belts and hoses			
		Guards			
		Electrical System			
		Battery cables			
		Charging voltage			
		Motion alarm			
		Confirm battery disconnect			
		Braking System			
		Brake fluid level			
		Brake lines			
		Hydraulic systems			
		Fluid level			
		Damage to cylinders and couplers			
List of Needed repairs:		Leaks: cylinders, lines, and connections			
		Undercarriage systems			
		Tire condition, inflation, and tread depth			
		Damage to track drive components			
		Track tension and alignment			
		Leaks to drive axles, motors, and finals			
		Cab and Interior			
		Cab doors, ladders, handles, and rails			
		HVAC system			
		Instrument cluster, switches, and controls			
		Interior and exterior lights			
		windshield, wipers and fluid level			
		Operation Inspection			
		Boom, stick, lift, and tilt functions			
		Emergency, service and park brakes			
		Engine RPM: min and max			
		Switches and levers			
		Safety lockouts			

I have checked these qualities to knowledge their presence and condition prior to rental

Competitor Signature:

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