

Heavy Duty Equipment Technician NOA (2004) Subtask to Unit Comparison

	NOA Subtask	Manitoba Unit(s)
Task '	1 - Uses tools and equipment.	
1.01	Uses hand tools, power tools and equipment.	A2 Equipment Access / Transport and Related Procedures
1.02	Uses measuring and testing devices.	D1 Engine Systems and Repair Procedures
1.03	Uses hoisting and lifting equipment.	A2 Equipment Access / Transport and Related Procedures
		D1 Engine Systems and Repair Procedures
1.04	Uses welding equipment.	C1 Welding (Oxyacetylene)
		C2 Welding (Electric/Arc/MIG)
1.05	Uses cutting equipment.	C1 Welding (Oxyacetylene)
		C2 Welding (Electric/Arc/MIG)
1.06	Uses heating / cooling equipment.	C1 Welding (Oxyacetylene)
1.07	Uses cleaning equipment and agents.	C1 Welding (Oxyacetylene)
		D1 Engine Systems and Repair Procedures
	2 - Performs maintenance and inspection	ns.
2.01	Maintains fuels, lubricants and coolants.	D1 Engine Systems and Repair Procedures
		E2 Hydraulic Transmissions, Retarders and Torque Converters
		E3 Differentials, Drive Axles, Final Drives and Clutch Steering Systems
2.02	Services fasteners, sealing devices, adhesives and gaskets.	D1 Engine Systems and Repair Procedures
2.03	Services hoses, tubing and fittings.	D1 Engine Systems and Repair Procedures
2.04	Services bearings and seals.	D1 Engine Systems and Repair Procedures
2.05	Services safety features.	A1 Safety, WHMIS & Preventative Maintenance
2.06	Performs scheduled maintenance procedures.	D1 Engine Systems and Repair Procedures
		F2 Tracks, Frames and Undercarriages; Ground Engaging Tools, Booms and Attachments
		H2 Manual/Hydraulic Steering Systems; Steering Linkage and Geometry
2.07	Performs operational checkout.	D1 Engine Systems and Repair Procedures
2.08	Performs return-to-service check.	D1 Engine Systems and Repair Procedures
2.00	T CHOIMS TELAM TO SELVICE GREEK.	Di Engine dystema una repair i roccaures
Task	3 - Analyses and processes information.	
3.01	Diagnoses operational faults.	D1 Engine Systems and Repair Procedures
	- g	B2 Customer and Interpersonal Relations
3.02	Accesses service information.	B1 Basic Computer Skills and Information Retrieval
<u>-</u>	- Interest Co. Interest and Interest Co.	B2 Customer and Interpersonal Relations
3.03	Abides by regulations and standards.	A1 Safety, WHMIS & Preventative Maintenance
3.04	Prepares / completes service-related documents.	B1 Basic Computer Skills and Information Retrieval
		B2 Customer and Interpersonal Relations
		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Task 4	4 - Diagnoses engines and engine suppo	ort systems.
4.01	Diagnoses engine performance.	D1 Engine Systems and Repair Procedures
4.02	Diagnoses basic engines.	D1 Engine Systems and Repair Procedures
4.03	Diagnoses lubrication systems.	D1 Engine Systems and Repair Procedures
4.04	Diagnoses cooling systems.	D1 Engine Systems and Repair Procedures D1 Engine Systems and Repair Procedures
4.05	Diagnoses intake and exhaust systems.	D1 Engine Systems and Repair Procedures D1 Engine Systems and Repair Procedures

	Manitoba Unit(s)
Densing angines and angine aumout	
- Repairs engines and engine support	
Repairs basic engines.	A2 Equipment Access / Transport and Related Procedures
Denoise lubrication austana	D1 Engine Systems and Repair Procedures
	D1 Engine Systems and Repair Procedures
	D1 Engine Systems and Repair Procedures
Repairs intake and exhaust systems.	D1 Engine Systems and Repair Procedures
- Diagnoses hydraulic and pneumatic s	
	G1 Hydraulics and Hydrostatic Drives
	G1 Hydraulics and Hydrostatic Drives
Diagnoses pneumatic systems	H1 Brake Fundamentals & Components
- Repairs hydraulic and pneumatic sys	tems.
Repairs hydraulic systems	G1 Hydraulics and Hydrostatic Drives
Repairs hydrostatic systems	G1 Hydraulics and Hydrostatic Drives
Repairs pneumatic systems	H1 Brake Fundamentals & Components
Verifies repair of hydraulic, hydrostatic	G2 Hydraulic Components, Testing and Diagnosis
and priedmatic systems.	H1 Brake Fundamentals & Components
	E4 Clandard Transmission Contains Districtions To 1
Diagnoses clutch systems.	E1 Standard Transmission Systems; Drivelines, Transfer Cases and PTOs
Diagnoses torque converters, fluid	E2 Hydraulic Transmissions, Retarders and Torque
<u> </u>	Converters E1 Standard Transmission Systems: Privalines Transfer
Diagnoses driveline systems.	E1 Standard Transmission Systems; Drivelines, Transfer Cases and PTOs
Diagnoses transmission and transfer	E1 Standard Transmission Systems; Drivelines, Transfer
	Cases and PTOs
	E3 Differentials, Drive Axles, Final Drives and Clutch Steering Systems
	E3 Differentials, Drive Axles, Final Drives and Clutch
	Steering Systems
- Renairs drive trains	
	E1 Standard Transmission Systems; Drivelines, Transfer
•	Cases and PTOs
Repairs driveline systems.	E1 Standard Transmission Systems; Drivelines, Transfer
	Cases and PTOs
	E2 Hydraulic Transmissions, Retarders and Torque Converters
Repairs driveline systems.	E1 Standard Transmission Systems; Drivelines, Transfer
Donaire transmission and transfer asset	Cases and PTOs E1 Standard Transmission Systems; Drivelines, Transfer
•	Cases and PTOs
-	E2 Hydraulic Transmissions, Retarders and Torque
	Converters
Repairs axle and differential systems.	E3 Differentials, Drive Axles, Final Drives and Clutch Steering Systems
Repairs final drive systems.	E1 Standard Transmission Systems; Drivelines, Transfer Cases and PTOs
	E3 Differentials, Drive Axles, Final Drives and Clutch
Varifica rapair of drive train evotors	Steering Systems E1 Standard Transmission Systems; Drivelines, Transfer
vermes repair or unive train system.	Cases and PTOs
	E3 Differentials, Drive Axles, Final Drives and Clutch Steering Systems
	Repairs lubrication systems. Repairs cooling systems. Repairs intake and exhaust systems. - Diagnoses hydraulic and pneumatic spiagnoses hydraulic systems Diagnoses hydraulic systems Diagnoses pneumatic systems Diagnoses pneumatic systems - Repairs hydraulic and pneumatic systems Repairs hydraulic systems Repairs hydrostatic systems Repairs pneumatic systems Verifies repair of hydraulic, hydrostatic and pneumatic systems. - Diagnoses drive trains. Diagnoses clutch systems. Diagnoses torque converters, fluid couplers and retarders. Diagnoses driveline systems. Diagnoses transmission and transfer case systems. Diagnoses axle and differential systems. - Repairs drive trains. Repairs clutch systems. Repairs driveline systems. Repairs driveline systems. Repairs driveline systems. Repairs driveline systems.

	NOA Subtask	Manitoba Unit(s)			
Task 10 - Diagnoses steering, suspension and brake systems.					
10.01	Diagnoses steering systems.	H2 Manual/Hydraulic Steering Systems; Steering Linkage			
		and Geometry			
10.02	Diagnoses suspension systems.	H2 Manual/Hydraulic Steering Systems; Steering Linkage			
10.00	<u></u>	and Geometry			
10.03	Diagnoses braking systems.	H1 Brake Fundamentals and Components			
10.04	Diagnoses wheel assemblies.	F1 Tires and Wheel Assemblies			
10.05	Diagnoses undercarriage systems.	F2 Tracks, Frames and Undercarriages; Ground Engaging Tools, Booms and Attachments			
Tools 4	4. Daneiro etecrina economica end h	valva avatama			
	1 - Repairs steering, suspension and bi				
11.01	Repairs steering systems.	H2 Manual/Hydraulic Steering Systems; Steering Linkage and Geometry			
11.02	Repairs suspension systems.	H2 Manual/Hydraulic Steering Systems; Steering Linkage and Geometry			
11.03	Repairs braking systems.	H1 Brake Fundamentals and Components			
11.04	Repairs wheel assemblies.	F1 Tires and Wheel Assemblies			
11.05	Repairs undercarriage.	F2 Tracks, Frames and Undercarriages; Ground Engaging			
		Tools, Booms and Attachments			
11.06	Verifies repairs of steering, suspension and/or braking system.	H1 Brake Fundamentals and Components			
	and or braining system.	H2 Manual/Hydraulic Steering Systems; Steering Linkage			
		and Geometry			
	2 - Diagnoses electrical and electronic				
12.01	Diagnoses electrical systems.	I1 Electrical Fundamentals			
		12 Electronic Components, Body Electrical and Warning			
		Safety Systems			
		13 Starting and Charging Systems			
10.00	Diagnaca alastronia avetema	J1 Standard and Electronic Ignition Tuneup			
12.02	Diagnoses electronic systems.	I2 Electronic Components, Body Electrical and Warning Safety Systems			
		J1 Standard and Electronic Ignition Tuneup			
		3			
Task 1	3 - Repairs electrical and electronic sys	stems.			
13.01	Repairs electrical systems.	I1 Electrical Fundamentals			
		I2 Electronic Components, Body Electrical and Warning			
		Safety Systems			
		I3 Starting and Charging Systems			
		J1 Standard and Electronic Ignition Tuneup			
13.02	Repairs electronic systems.	I2 Electronic Components, Body Electrical and Warning Safety Systems			
		I3 Starting and Charging Systems			
		J1 Standard and Electronic Ignition Tuneup			
13.03	Verifies repairs of electrical and electronic system.	I1 Electrical Fundamentals			
		I2 Electronic Components, Body Electrical and Warning			
		Safety Systems			
		J1 Standard and Electronic Ignition Tuneup			
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	4 - Diagnoses and repairs HVAC system				
14.01	Diagnoses heating systems.	F3 HVAC			
14.02 14.03	Repairs heating systems.	F3 HVAC			
14.03	Verifies repair of heating systems. Diagnoses ventilation systems.	F3 HVAC F3 HVAC			
14.04	Repairs ventilation systems.	F3 HVAC			
14.05	Verifies repair of ventilation systems.	F3 HVAC			
14.07	Diagnoses air conditioning systems.	F3 HVAC			
14.08	Repairs air conditioning systems.	F3 HVAC			
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NOA Subtask		Manitoba Unit(s)			
14.09	Verifies repair of air conditioning	F3 HVAC			
14.09	systems.	TSTIVAC			
	Task 15 - Services structural components.				
15.01	Diagnoses structural components.	F2 Tracks, Frames and Undercarriages; Ground Engaging Tools, Booms and Attachments			
		H2 Manual/Hydraulic Steering Systems; Steering Linkage and Geometry			
15.02	Performs mechanical repairs on structural components.	F2 Tracks, Frames and Undercarriages; Ground Engaging Tools, Booms and Attachments			
		H2 Manual/Hydraulic Steering Systems; Steering Linkage and Geometry			
15.03	Verifies mechanical repair of structural components.	F2 Tracks, Frames and Undercarriages; Ground Engaging Tools, Booms and Attachments			
	·	H2 Manual/Hydraulic Steering Systems; Steering Linkage and Geometry			
Task 1	6 - Services operator station.				
16.01	Diagnoses operator station components.	A1 Safety, WHMIS and Preventative Maintenance			
16.02	Repairs operator station components.	A1 Safety, WHMIS and Preventative Maintenance			
16.03	Verifies repair of operator station components.	A1 Safety, WHMIS and Preventative Maintenance			
	7 - Installs, diagnoses and repairs attach				
17.01	Installs attachments.	F2 Tracks, Frames and Undercarriages; Ground Engaging Tools, Booms and Attachments			
17.02	Diagnoses attachments.	F2 Tracks, Frames and Undercarriages; Ground Engaging Tools, Booms and Attachments			
17.03	Repairs attachments.	F2 Tracks, Frames and Undercarriages; Ground Engaging Tools, Booms and Attachments			
17.04	Verifies repair of attachments.	F2 Tracks, Frames and Undercarriages; Ground Engaging Tools, Booms and Attachments			
17.05	Installs accessories.	F2 Tracks, Frames and Undercarriages; Ground Engaging Tools, Booms and Attachments			
17.06	Diagnoses accessories.	F2 Tracks, Frames and Undercarriages; Ground Engaging Tools, Booms and Attachments			
17.07	Repairs accessories.	F2 Tracks, Frames and Undercarriages; Ground Engaging Tools, Booms and Attachments			
17.08	Verifies repair of accessories.	F2 Tracks, Frames and Undercarriages; Ground Engaging Tools, Booms and Attachments			

