

Agricultural Equipment Technician NOA (2012) Subtask to Unit Comparison

NOA Subtask		Manitoba Unit(s)
Task 1 – Performs safety-related functions.		
1.01	Uses personal protective equipment (PPE) and safety equipment.	A2 Trade Safety Awareness
1.02	Maintains safe work environment.	A2 Trade Safety Awareness
Task 2 – Performs common work practices and procedures.		
2.01	Conducts operational tests.	A7 Braking Systems and Wheel-End Safety B2 Starting and Charging Systems C1 Engines and Engine Support Systems II: Combustion Science/Emission Controls C2 Engines and Engine Support Systems III: Diesel Fuel Systems C4 HVAC Environmental Controls II C5 Hydraulics Service and Repair C6 Powertrains II: Agricultural Drivetrains D2 Electronics II: Precision Farming D3 Hydraulic Testing and Diagnostics D4 Hydrostatic Testing and Diagnostics
2.02	Maintains fluids, lubricants and coolants.	A9 Basic Hydraulic Systems B3 Engines and Engine Support Systems I C5 Hydraulics Service and Repair
2.03	Services filters.	A9 Basic Hydraulic Systems B3 Engines and Engine Support Systems I
2.04	Maintains hoses, tubing and fittings.	A9 Basic Hydraulic Systems
2.05	Services bearings/bushings and seals.	A3 Tools and Equipment
2.06	Uses fasteners, sealing devices, adhesives and gaskets.	A3 Tools and Equipment
2.07	Cleans components.	A3 Tools and Equipment
2.08	Verifies equipment and component repairs.	A7 Braking Systems and Wheel-End Safety B2 Starting and Charging Systems C1 Engines and Engine Support Systems II: Combustion Science/Emission Controls C2 Engines and Engine Support Systems III: Diesel Fuel Systems C4 HVAC Environmental Controls II C5 Hydraulics Service and Repair C6 Powertrains II: Agricultural Drivetrains D2 Electronics II: Precision Farming D3 Hydraulic Testing and Diagnostics D4 Hydrostatic Testing and Diagnostics
2.09	Plans daily tasks.	A1 Learning About Work A4 Trade Communications, Documents and Computer Skills D1 Journeyperson Trainer
2.10	Performs failure analysis.	A7 Braking Systems and Wheel-End Safety B2 Starting and Charging Systems C1 Engines and Engine Support Systems II: Combustion Science/Emission Controls C2 Engines and Engine Support Systems III: Diesel Fuel Systems C4 HVAC Environmental Controls II C5 Hydraulics Service and Repair

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		C6 Powertrains II: Agricultural Drivetrains D2 Electronics II: Precision Farming D3 Hydraulic Testing and Diagnostics D4 Hydrostatic Testing and Diagnostics
Task 3 – Uses and maintains tools and equipment.		
3.01	Maintains tools and equipment.	A3 Tools and Equipment
3.02	Uses hoisting, lifting and securing equipment.	A8 Hoisting and Lifting
3.03	Uses computers diagnostics and programming.	A4 Trade Communications, Documents and Computer Skills C1 Engines and Engine Support Systems II: Combustion Science/Emission Controls C2 Engines and Engine Support Systems III: Diesel Fuel Systems D2 Electronics II: Precision Farming
Task 4 – Diagnoses engine and engine support systems.		
4.01	Diagnoses base engine.	A5 Engine Principles B3 Engines and Engine Support Systems I
4.02	Diagnoses lubrication system.	B3 Engines and Engine Support Systems I
4.03	Diagnoses cooling system.	B3 Engines and Engine Support Systems I
4.04	Diagnoses intake and exhaust system.	B3 Engines and Engine Support Systems I
4.05	Diagnoses fuel delivery system.	C2 Engines and Engine Support Systems III: Diesel Fuel Systems
4.06	Diagnoses engine management systems.	C1 Engines and Engine Support Systems II: Combustion Science/Emission Controls C2 Engines and Engine Support Systems III: Diesel Fuel Systems D2 Electronics II: Precision Farming
4.07	Diagnoses emissions control systems.	C1 Engines and Engine Support Systems II: Combustion Science/Emission Controls
Task 5 – Repairs engine and engine support systems.		
5.01	Repairs base engine.	A5 Engine Principles B3 Engines and Engine Support Systems I
5.02	Repairs lubrication system.	B3 Engines and Engine Support Systems I
5.03	Repairs cooling system.	B3 Engines and Engine Support Systems I
5.04	Repairs intake and exhaust system.	B3 Engines and Engine Support Systems I
5.05	Repairs fuel delivery system.	C2 Engines and Engine Support Systems III: Diesel Fuel Systems
5.06	Repairs engine management systems.	C1 Engines and Engine Support Systems II: Combustion Science/Emission Controls C2 Engines and Engine Support Systems III: Diesel Fuel Systems D2 Electronics II: Precision Farming
5.07	Repairs emissions control systems.	C1 Engines and Engine Support Systems II: Combustion Science/Emission Controls
Task 6 – Diagnoses drive train.		
6.01	Diagnoses dry clutches.	B4 Powertrain Fundamentals
6.02	Diagnoses driveline systems and components.	B4 Powertrain Fundamentals C6 Powertrains II: Agricultural Drivetrains
6.03	Diagnoses wet clutches, transmissions and gear cases.	B4 Powertrain Fundamentals C6 Powertrains II: Agricultural Drivetrains
6.04	Diagnoses differentials and final drives.	C6 Powertrains II: Agricultural Drivetrains
Task 7 – Repairs drive train.		
7.01	Repairs dry clutches.	B4 Powertrain Fundamentals
7.02	Repairs driveline systems and	B4 Powertrain Fundamentals

NOA Subtask		Manitoba Unit(s)
	components.	C6 Powertrains II: Agricultural Drivetrains
7.03	Repairs wet clutches, transmissions and gear cases.	B4 Powertrain Fundamentals C6 Powertrains II: Agricultural Drivetrains
7.04	Repairs differentials and final drives.	C6 Powertrains II: Agricultural Drivetrains
Task 8 – Diagnoses hydraulic, hydrostatic and pneumatic systems.		
8.01	Diagnoses hydraulic and hydrostatic systems.	A9 Basic Hydraulic Systems D3 Hydraulic Testing and Diagnostics D4 Hydrostatic Testing and Diagnostics
8.02	Diagnoses pneumatic systems.	A7 Braking Systems and Wheel-End Safety
Task 9 – Repairs hydraulic, hydrostatic and pneumatic systems.		
9.01	Repairs hydraulic and hydrostatic systems.	A9 Basic Hydraulic Systems D3 Hydraulic Testing and Diagnostics D4 Hydrostatic Testing and Diagnostics
9.02	Repairs pneumatic systems.	A7 Braking Systems and Wheel-End Safety
Task 10 – Diagnoses electrical/electronic power and control monitoring systems.		
10.01	Diagnoses electrical power and control monitoring systems.	A6 Electrical Fundamentals B2 Starting and Charging Systems
10.02	Diagnoses electronic power and control monitoring systems.	B2 Starting and Charging Systems B5 Electronics I: Fundamentals D2 Electronics II: Precision Farming
Task 11 – Repairs electrical/electronic power and control monitoring systems.		
11.01	Repairs electrical power and control monitoring systems.	A6 Electrical Fundamentals B2 Starting and Charging Systems
11.02	Repairs electronic power and control monitoring systems.	B2 Starting and Charging Systems B5 Electronics I: Fundamentals D2 Electronics II: Precision Farming
Task 12 – Diagnoses steering and brake systems.		
12.01	Diagnoses steering systems.	B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming
12.02	Diagnoses brake systems.	A7 Braking Systems and Wheel-End Safety
Task 13 – Repairs steering and brake systems.		
13.01	Repairs steering systems.	B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming
13.02	Repairs brake systems.	A7 Braking Systems and Wheel-End Safety
Task 14 – Diagnoses suspension components.		
14.01	Diagnoses wheels/tracks and track frames.	A10 Frames, Suspensions, and Structural Components
14.02	Diagnoses cushioning devices.	A10 Frames, Suspensions, and Structural Components
Task 15 – Repairs suspension components.		
15.01	Repairs wheels/tracks and track frames.	A10 Frames, Suspensions, and Structural Components
15.02	Repairs cushioning devices.	A10 Frames, Suspensions, and Structural Components
Task 16 – Diagnoses structural components.		
16.01	Diagnoses frame components.	A10 Frames, Suspensions, and Structural Components
16.02	Verifies condition of roll-over protective structure (ROPS).	D5 Cabs and Protective Structures
16.03	Diagnoses equipment body.	D5 Cabs and Protective Structures
Task 17 – Repairs structural components.		
17.01	Repairs frame components.	A10 Frames, Suspensions, and Structural Components A12 Welding I

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		B1 Welding II
17.02	Replaces roll-over protective structure (ROPS).	D5 Cabs and Protective Structures
17.03	Repairs equipment body.	A12 Welding I B1 Welding II D5 Cabs and Protective Structures
Task 18 – Diagnoses climate control systems.		
18.01	Diagnoses heating and ventilation systems.	A11 HVAC and Environmental Controls I C4 HVAC and Environmental Controls II
18.02	Diagnoses air conditioning systems.	A11 HVAC and Environmental Controls I C4 HVAC and Environmental Controls II
Task 19 – Repairs climate control systems.		
19.01	Repairs heating and ventilation systems.	A11 HVAC and Environmental Controls I C4 HVAC and Environmental Controls II
19.02	Repairs air conditioning systems.	A11 HVAC and Environmental Controls I C4 HVAC and Environmental Controls II
Task 20 – Prepares agricultural equipment.		
20.01	Performs assembly and pre-delivery adjustments on agricultural equipment.	B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming
20.02	Installs agricultural equipment.	B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming D6 Agricultural Equipment II: Diagnostics
Task 21 – Diagnoses land preparation, tillage and seeding/planting implements.		
21.01	Diagnoses land preparation and tillage implements.	B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming
21.02	Diagnoses seeding and planting implements.	B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming D6 Agricultural Equipment II: Diagnostics
Task 22 – Repairs land preparation, tillage and seeding/planting implements.		
22.01	Repairs land preparation and tillage implements.	A12 Welding I B1 Welding II B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming
22.02	Repairs seeding and planting implements.	B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming D6 Agricultural Equipment II: Diagnostics
Task 23 – Diagnoses harvesting, hay and forage equipment.		
23.01	Diagnoses cutting, conditioning, gathering and processing equipment.	B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming
23.02	Diagnoses delivery equipment.	B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming D6 Agricultural Equipment II: Diagnostics
Task 24 – Repairs harvesting, hay and forage equipment.		
24.01	Repairs cutting, conditioning, gathering and processing equipment.	A12 Welding I B1 Welding II B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming
24.02	Repairs delivery equipment.	A12 Welding I B1 Welding II B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming D6 Agricultural Equipment II: Diagnostics

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Task 25 – Diagnoses application and irrigation equipment.		
25.01	Diagnoses application equipment.	B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming
25.02	Diagnoses irrigation equipment.	B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming D6 Agricultural Equipment II: Diagnostics
Task 26 – Repairs application and irrigation equipment.		
26.01	Repairs application equipment.	A12 Welding I B1 Welding II B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming
26.02	Repairs irrigation equipment.	A12 Welding I B1 Welding II B6 Agricultural Equipment I: Fundamentals D2 Electronics II: Precision Farming D6 Agricultural Equipment II: Diagnostics



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