

## Motor Vehicle Body Repairer (Metal and Paint) NOA (2005) Subtask to Unit Comparison

NOA Subtask		Manitoba Unit(s)
<b>Task 1 - Uses documentation.</b>		
1.01	Uses manufacturer's specifications and repair procedures.	A4 Tools and Equipment
		E3 Damage Analysis of Conventional Frames and Unitized Bodies
		E6 Body Integrity
		G1 Electrical Fundamentals
1.02	Interprets estimates.	A5 Trade Related Documents
		B4 Trade Formulations - III
1.03	Uses work orders.	A5 Trade Related Documents
		B4 Trade Formulations - III
		G4 Electrical Program II
1.04	Interprets safety and environmental regulations.	A2 Trade Safety Awareness
		A6 MOPIA (Manitoba Ozone Protection Industry Association)
<b>Task 2 - Uses tools and equipment.</b>		
2.01	Uses hand tools.	A4 Tools and Equipment
		F11 Straightening Aluminum Panels
2.02	Uses power equipment.	A4 Tools and Equipment
		F11 Straightening Aluminum Panels
2.03	Uses welding equipment.	A4 Tools and Equipment
		A8 Welding Test
		B1 Trade Formulations I & Trade Related Science
		C1 Cutting and Heating
		C2 Gas Metal Arc Welding (GMAW [MIG])
		C4 Metal Working in Body Adjustments
		C5 Resistance Spot Welding (RSW)
		C6 Welding and Cutting Aluminum
		F4 Non-Metal (Plastics and Composite) Repairs
		F11 Straightening Aluminum Panels
2.04	Uses straightening equipment.	A4 Tools and Equipment
		F10 Conventional Frame Repairs
		F11 Straightening Aluminum Panels
2.05	Uses lifting equipment.	A4 Tools and Equipment
		B1 Trade Formulations I & Trade Related Science
2.06	Uses measuring equipment.	A4 Tools and Equipment
		B1 Trade Formulations I & Trade Related Science
		E3 Damage Analysis of Conventional Frames and Unitized Bodies
		F7 Measuring and Gauging
2.07	Uses refinishing tools and equipment.	A4 Tools and Equipment
		H5 Primers, Surfacer, Sealers (Prepping of Substrates)
		H6 Refinishing II (Application of Topcoats)
		F11 Straightening Aluminum Panels
2.08	Uses personal protective equipment (PPE).	A2 Trade Safety Awareness

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<b>Task 3 - Organizes work.</b>		
3.01	Prepares damage estimate.	A5 Trade Related Documents
		B4 Trade Formulations - III
		E2 Fundamentals of Collision Repair
		E4 Damage Analysis and Estimating Costs
		F7 Measuring and Gauging
		G4 Electrical Program II
3.02	Orders parts and materials.	A5 Trade Related Documents
		B4 Trade Formulations - III
3.03	Organizes parts and materials.	A5 Trade Related Documents
		B4 Trade Formulations - III
3.04	Communicates with others.	A3 Communication
		B4 Trade Formulations - III
		E4 Damage Analysis and Estimating Costs
3.05	Prepares work area.	A2 Trade Safety Awareness
		C6 Welding and Cutting Aluminum
3.06	Maintains safe work environment.	A2 Trade Safety Awareness
		A6 MOPIA (Manitoba Ozone Protection Industry Association)
<b>Task 4 - Applies corrosion protection material.</b>		
4.01	Applies weld through primer.	A8 Welding Test
		E1 Corrosion Protection
		H5 Primers, Surfacer, Sealers (Prepping of Substrates)
		E2 Fundamentals of Collision Repair
		F11 Straightening Aluminum Panels
4.02	Applies corrosion protection for electrical components.	E1 Corrosion Protection
		E2 Fundamentals of Collision Repair
4.03	Applies corrosion inhibitors.	E1 Corrosion Protection
		E2 Fundamentals of Collision Repair
		F9 Structural Corrosion Protection
		F11 Straightening Aluminum Panels
<b>Task 5 - Repairs and replaces trim.</b>		
5.01	Removes trim.	D2 Fasteners and Adhesives
		H3 Upholstery, Trim and Hardware
5.02	Installs trim.	D2 Fasteners and Adhesives
		H3 Upholstery, Trim and Hardware
5.03	Repairs trim.	B1 Trade Formulations I & Trade Related Science
		C6 Welding and Cutting Aluminum
		H3 Upholstery, Trim and Hardware
<b>Task 6 - Performs final check.</b>		
6.01	Inspects vehicle visually.	E2 Fundamentals of Collision Repair
		E3 Damage Analysis of Conventional Frames and Unitized Bodies
		E5 Post Repair Vehicle Inspection
		E6 Body Integrity
		F7 Measuring and Gauging
		F11 Straightening Aluminum Panels
6.02	Performs operational check.	E5 Post Repair Vehicle Inspection
6.03	Conducts road test.	E5 Post Repair Vehicle Inspection
<b>Task 7 – Repairs structural components.</b>		
7.01	Performs vehicle setup.	C4 Metal Working in Body Adjustments
		F8 Unitized Body Repair

NOA Subtask		Manitoba Unit(s)
		F10 Conventional Frame Repairs
7.02	Identifies extent of damage.	B4 Trade Formulations - III
		E3 Damage Analysis of Conventional Frames and Unitized Bodies
		E5 Post Repair Vehicle Inspection
		F7 Measuring and Gauging
		F8 Unitized Body Repair
		F10 Conventional Frame Repairs
		F11 Straightening Aluminum Panels
7.03	Removes components for access.	D2 Fasteners and Adhesives
		F8 Unitized Body Repair
		F10 Conventional Frame Repairs
7.04	Straightens structural components.	B1 Trade Formulations I & Trade Related Science
		B2 Metallurgy/Batteries
		F8 Unitized Body Repair
		F10 Conventional Frame Repairs
		F11 Straightening Aluminum Panels
7.05	Verifies measurement and fit.	F7 Measuring and Gauging
		F8 Unitized Body Repair
		F10 Conventional Frame Repairs
7.06	Installs components.	D2 Fasteners and Adhesives
		F7 Measuring and Gauging
		F8 Unitized Body Repair
		F10 Conventional Frame Repairs
<b>Task 8 - Replaces structural components.</b>		
8.01	Removes structural components.	C6 Welding and Cutting Aluminum
		E2 Fundamentals of Collision Repair
		F7 Measuring and Gauging
		F8 Unitized Body Repair
		F10 Conventional Frame Repairs
		F11 Straightening Aluminum Panels
8.02	Installs structural components.	B1 Trade Formulations I & Trade Related Science
		C6 Welding and Cutting Aluminum
		E2 Fundamentals of Collision Repair
		F7 Measuring and Gauging
		F8 Unitized Body Repair
		F10 Conventional Frame Repairs
<b>Task 9 - Repairs panels.</b>		
9.01	Prepares panels for repair.	E2 Fundamentals of Collision Repair
		F1 Metal Working I (Sheet Metal)
		F3 Metal Working II (Aluminum)
		F4 Non-Metal (Plastics and Composite) Repairs
		F5 Structural Components
		F6 Non-structural Components
		F11 Straightening Aluminum Panels
9.02	Reshapes panels.	B1 Trade Formulations I & Trade Related Science
		E2 Fundamentals of Collision Repair
		F1 Metal Working I (Sheet Metal)
		F3 Metal Working II (Aluminum)
		F4 Non-Metal (Plastics and Composite) Repairs
		F5 Structural Components
		F6 Non-structural Components
		F11 Straightening Aluminum Panels
9.03	Aligns panels.	E2 Fundamentals of Collision Repair
		F5 Structural Components
		F6 Non-structural Components

NOA Subtask		Manitoba Unit(s)
		F11 Straightening Aluminum Panels
9.04	Applies repair materials.	F1 Metal Working I (Sheet Metal)
		F2 Body Fillers and Abrasives
		F3 Metal Working II (Aluminum)
		F4 Non-Metal (Plastics and Composite) Repairs
		F11 Straightening Aluminum Panels
9.05	Shapes repair materials.	F1 Metal Working I (Sheet Metal)
		F2 Body Fillers and Abrasives
		F3 Metal Working II (Aluminum)
		F4 Non-Metal (Plastics and Composite) Repairs
		F11 Straightening Aluminum Panels
<b>Task 10 - Replaces panels.</b>		
10.01	Removes panels.	E2 Fundamentals of Collision Repair
		F5 Structural Components
		F6 Non-structural Components
		F11 Straightening Aluminum Panels
10.02	Prepares common surfaces.	C4 Metal Working in Body Adjustments
		C6 Welding and Cutting Aluminum
		D1 Vehicle Construction
		E2 Fundamentals of Collision Repair
		F11 Straightening Aluminum Panels
10.03	Test fits panels.	E2 Fundamentals of Collision Repair
		F5 Structural Components
		F6 Non-structural Components
		F11 Straightening Aluminum Panels
10.04	Installs panels.	B1 Trade Formulations I & Trade Related Science
		C6 Welding and Cutting Aluminum
		D2 Fasteners and Adhesives
		E2 Fundamentals of Collision Repair
		F5 Structural Components
		F6 Non-structural Components
		F11 Straightening Aluminum Panels
<b>Task 11 - Replaces structural glass.</b>		
11.01	Prepares surfaces.	C4 Metal Working in Body Adjustments
		D1 Vehicle Construction
		D3 Stationary Glass
11.02	Installs structural glass.	D3 Stationary Glass
		C4 Metal Working in Body Adjustments
11.03	Repairs laminated glass. (Not common core)	C4 Metal Working in Body Adjustments
		D1 Vehicle Construction
		D3 Stationary Glass
<b>Task 12 - Replaces non-structural glass.</b>		
12.01	Removes non-structural glass.	D2 Fasteners and Adhesives
		D4 Moveable Glass and Hardware
12.02	Removes debris.	D4 Moveable Glass and Hardware
12.03	Services hardware.	D4 Moveable Glass and Hardware
12.04	Installs non-structural glass.	D2 Fasteners and Adhesives
		D4 Moveable Glass and Hardware
<b>Task 13 - Repairs and replaces mechanical components.</b>		
13.01	Removes mechanical components.	D2 Fasteners and Adhesives
		D6 Steering, Suspension and Braking Systems
		G3 Mechanical Systems and Components
13.02	Cleans mechanical components.	G3 Mechanical Systems and Components

<b>NOA Subtask</b>		<b>Manitoba Unit(s)</b>
13.03	Straightens mechanical components. (Not common core)	
13.04	Installs mechanical components.	D2 Fasteners and Adhesives
		D6 Steering, Suspension and Braking Systems
		G3 Mechanical Systems and Components
<b>Task 14 - Repairs and replaces electrical components.</b>		
14.01	Repairs damaged wires and exterior coverings.	G1 Electrical Fundamentals
		G2 Electrical Program I
		G4 Electrical Program II
14.02	Cleans corroded components and connections.	B2 Metallurgy/Batteries
		G2 Electrical Program I
14.03	Removes damaged electrical components.	B2 Metallurgy/Batteries
		G2 Electrical Program I
		G4 Electrical Program II
14.04	Installs electrical components.	B2 Metallurgy/Batteries
		G1 Electrical Fundamentals
		G2 Electrical Program I
		G4 Electrical Program II
<b>Task 15 - Repairs and replaces interior components.</b>		
15.01	Removes interior components.	D2 Fasteners and Adhesives
		H3 Upholstery, Trim and Hardware
		E2 Fundamentals of Collision Repair
		F11 Straightening Aluminum Panels
15.02	Installs interior components.	D2 Fasteners and Adhesives
		H3 Upholstery, Trim and Hardware
15.03	Repairs interior components.	H3 Upholstery, Trim and Hardware
		E2 Fundamentals of Collision Repair
<b>Task 16 - Replaces seat belt restraint systems.</b>		
16.01	Removes interior panels and upholstery.	D2 Fasteners and Adhesives
		E2 Fundamentals of Collision Repair
		F11 Straightening Aluminum Panels
		H3 Upholstery, Trim and Hardware
16.02	Removes seat belt restraint systems.	D5 Restraint systems
16.03	Installs seat belt restraint systems.	D5 Restraint systems
16.04	Installs interior panels and upholstery.	E2 Fundamentals of Collision Repair
		H3 Upholstery, Trim and Hardware
<b>Task 17 - Replaces air bag systems.</b>		
17.01	Removes air bags.	D5 Restraint systems
17.02	Removes related components.	D5 Restraint systems
17.03	Replaces related components.	D5 Restraint systems
17.04	Installs air bags.	D5 Restraint systems
<b>Task 18 - Prepares surfaces.</b>		
18.01	Decontaminates area.	E1 Corrosion Protection
		H1 Surface Preparation and Application of Undercoats and Topcoats (Cleaning, Stripping, Masking and Abrasives)
		F4 Non-Metal (Plastics and Composite) Repairs
		H5 Primers, Surfacer, Sealers (Prepping of Substrates)
18.02	Sands surfaces.	F2 Body Fillers and Abrasives
		H1 Surface Preparation and Application of Undercoats and Topcoats (Cleaning, Stripping, Masking and Abrasives)

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		H5 Primers, Surfacers, Sealers (Prepping of Substrates)
18.03	Cleans sanded surfaces.	H1 Surface Preparation and Application of Undercoats and Topcoats (Cleaning, Stripping, Masking and Abrasives)
		H5 Primers, Surfacers, Sealers (Prepping of Substrates)
18.04	Marks off surrounding area.	H5 Primers, Surfacers, Sealers (Prepping of Substrates)
<b>Task 19 - Prepares and applies refinishing materials.</b>		
19.01	Mixes refinishing materials.	B3 Trade Formulations - II
		B4 Trade Formulations - III
		H4 Refinishing I
		H5 Primers, Surfacers, Sealers (Prepping of Substrates)
		H7 Refinishing III
19.02	Performs final wash and tack.	H4 Refinishing I
		H5 Primers, Surfacers, Sealers (Prepping of Substrates)
		H6 Refinishing II (Application of Topcoats)
		H7 Refinishing III
19.03	Applies material to surface.	H5 Primers, Surfacers, Sealers (Prepping of Substrates)
19.04	Removes masking.	H1 Surface Preparation and Application of Undercoats and Topcoats (Cleaning, Stripping, Masking and Abrasives)
		H5 Primers, Surfacers, Sealers (Prepping of Substrates)
<b>Task 20 - Details exterior.</b>		
20.01	Polishes vehicle.	H2 Cleaning and Detailing
		H6 Refinishing II (Application of Topcoats)
20.02	Washes vehicle.	H2 Cleaning and Detailing
		H6 Refinishing II (Application of Topcoats)
20.03	Removes overspray.	H6 Refinishing II (Application of Topcoats)
<b>Task 21 - Details interior.</b>		
21.01	Cleans interior.	H2 Cleaning and Detailing
21.02	Cleans hard surfaces.	H2 Cleaning and Detailing