

Refrigeration and Air Conditioning Mechanic (Residential) POS (2023) Subtask to Unit Comparison

POS Subtask		Manitoba Unit(s)
Task A1 – Performs safety-related functions		
1.01	Maintains safe work environment	A2 Trade Safety Awareness A8 HVAC/R Activities I In-context all units
1.02	Performs lock-out, tag-out and isolation procedures	A2 Trade Safety Awareness C3 Residential HVAC Control Systems
1.03	Uses personal protective equipment (PPE) and safety equipment	A2 Trade Safety Awareness A3 Tools and Equipment In-context all units
Task A2 – Uses tools and equipment		
2.01	Uses hand tools	A3 Tools and Equipment C6 Residential HVAC Duct Systems
2.02	Uses portable and stationary power tools	A3 Tools and Equipment C6 Residential HVAC Duct Systems
2.03	Uses brazing and soldering equipment	A3 Tools and Equipment A8 HVAC/R Activities I
2.04	Uses recovery and recycling tools and equipment	A3 Tools and Equipment A8 HVAC/R Activities I
2.05	Uses evacuation tools and equipment	A3 Tools and Equipment A8 HVAC/R Activities I
2.06	Uses charging tools and equipment	A3 Tools and Equipment A8 HVAC/R Activities I
2.07	Uses diagnostic and measuring tools and equipment	A3 Tools and Equipment A8 HVAC/R Activities I A9 HVAC/R System Fundamentals A10 Electrical and Control Fundamentals B5 HVAC/R Systems Service C6 Residential HVAC Duct Systems
2.08	Uses access equipment	A3 Tools and Equipment
2.09	Uses rigging, hoisting and lifting equipment	A3 Tools and Equipment
2.10	Uses digital technology	A3 Tools and Equipment A5 Trade Related Communications
Task A3 – Organizes work		
3.01	Interprets drawings and specifications	A4 Equipment and Service Documents B1 Drawings, Blueprints and Specifications C2 Residential HVAC Systems Installation C5 Residential HVAC Motors C6 Residential HVAC Duct Systems
3.02	Uses documentation and reference material	A4 Equipment and Service Documents A7 Thermodynamic and Heat Fundamentals B1 Drawings, Blueprints and Specifications B3 HVAC/R Systems Installation C1 Residential HVAC Estimation and Coordination C3 Residential HVAC Control Systems C4 Residential HVAC Systems Commissioning and Service C6 Residential HVAC Duct Systems

POS Subtask		Manitoba Unit(s)
3.03	Plans job tasks and procedures	A2 Trade Safety Awareness B3 HVAC/R Systems Installation C1 Residential HVAC Estimation and Coordination C3 Residential HVAC Control Systems C5 Residential HVAC Motors C6 Residential HVAC Duct Systems
Task A4 – Uses communication and mentoring techniques		
4.01	Uses communication techniques	A1 Learning About Work A5 Trade Related Communications C3 Residential HVAC Control Systems C9 Journeyperson Trainer
4.02	Uses mentoring techniques	C9 Journeyperson Trainer
Task B5 – Performs worksite preparation		
5.01	Performs worksite preparation	A8 HVAC/R Activities I
5.02	Handles materials and supplies	A8 HVAC/R Activities I B2 HVAC/R Activities II C6 Residential HVAC Duct Systems In-context all units
Task B6 – Performs trade activities		
6.01	Performs brazing and soldering	A8 HVAC/R Activities I
6.02	Performs leak and pressure tests on system	A7 Thermodynamic and Heat Fundamentals A8 HVAC/R Activities I B2 HVAC/R Activities II
6.03	Evacuates systems	B2 HVAC/R Activities II A8 HVAC/R Activities I
6.04	Uses refrigerants, gases and oils	A7 Thermodynamic and Heat Fundamentals A8 HVAC/R Activities I B2 HVAC/R Activities II
6.05	Performs field wiring of system	B2 HVAC/R Activities II C3 Residential HVAC Control Systems
6.06	Applies sealants and adhesives	A8 HVAC/R Activities I C6 Residential HVAC Duct Systems
Task C7 – Plans installation of residential HVAC systems		
7.01	Verifies HVAC system parameters and requirements	A10 Electrical and Control Fundamentals B4 Control Systems Installation I C2 Residential HVAC Systems Installation C3 Residential HVAC Control Systems C6 Residential HVAC Duct Systems C7 Residential HVAC Heat Pump Retrofit
7.02	Selects HVAC equipment, components and accessories	B3 HVAC/R Systems Installation C7 Residential HVAC Heat Pump Retrofit
7.03	Determines placement of HVAC equipment, components and accessories	B3 HVAC/R Systems Installation C2 Residential HVAC Systems Installation C6 Residential HVAC Duct Systems C7 Residential HVAC Heat Pump Retrofit
7.04	Performs HVAC material take-off	B4 Control Systems Installation I C2 Residential HVAC Systems Installation C7 Residential HVAC Heat Pump Retrofit B3 HVAC/R Systems Installation
Task C8 – Plans installation of residential HVAC control systems		
8.01	Verifies control system parameters and requirements	A10 Electrical and Control Fundamentals B3 HVAC/R Systems Installation C3 Residential HVAC Control Systems C7 Residential HVAC Heat Pump Retrofit

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8.02	Selects control system components and accessories	A10 Electrical and Control Fundamentals
		B3 HVAC/R Systems Installation
		C3 Residential HVAC Control Systems
		C6 Residential HVAC Duct Systems
		C7 Residential HVAC Heat Pump Retrofit
8.03	Determines placement of control system components and accessories	A10 Electrical and Control Fundamentals
		B3 HVAC/R Systems Installation
		C3 Residential HVAC Control Systems
		C7 Residential HVAC Heat Pump Retrofit
8.04	Performs control system material take-off	A10 Electrical and Control Fundamentals
		B4 Control Systems Installation I
		C1 Residential HVAC Estimation and Coordination
		C3 Residential HVAC Control Systems
		C7 Residential HVAC Heat Pump Retrofit
Task D9 – Installs residential HVAC systems		
9.01	Confirms system layout	A9 HVAC/R System Fundamentals
		B3 HVAC/R Systems Installation
		C2 Residential HVAC Systems Installation
		C3 Residential HVAC Control Systems
9.02	Assembles HVAC equipment, components and accessories	B3 HVAC/R Systems Installation
		C2 Residential HVAC Systems Installation
		C6 Residential HVAC Duct Systems
9.03	Places HVAC equipment, components and accessories	A9 HVAC/R System Fundamentals
		B3 HVAC/R Systems Installation
		C6 Residential HVAC Duct Systems
		C7 Residential HVAC Heat Pump Retrofit
9.04	Installs fasteners, brackets and hangers	A8 HVAC/R Activities I
		A9 HVAC/R System Fundamentals
		C6 Residential HVAC Duct Systems
9.05	Installs HVAC piping and tubing	A8 HVAC/R Activities I
		B2 HVAC/R Activities II
		B8 Pipe Threading and Assembly
9.06	Applies HVAC holding charge	B2 HVAC/R Activities II
		B3 HVAC/R Systems Installation
		C4 Residential HVAC Systems Commissioning and Service
		C7 Residential HVAC Heat Pump Retrofit
Task D10 – Installs residential HVAC control systems		
10.01	Places control system components	A10 Electrical and Control Fundamentals
		B3 HVAC/R Systems Installation
		B4 Control Systems Installation I
		C3 Residential HVAC Control Systems
		C7 Residential HVAC Heat Pump Retrofit
10.02	Connects control systems	A10 Electrical and Control Fundamentals
		B3 HVAC/R Systems Installation
		B4 Control Systems Installation I
		C3 Residential HVAC Control Systems
		C7 Residential HVAC Heat Pump Retrofit
Task E11 – Commissions residential HVAC systems		
11.01	Performs pre-start-up checks for HVAC systems	A9 HVAC/R System Fundamentals
		B5 HVAC/R Systems Service
		C4 Residential HVAC Systems Commissioning and Service
		C7 Residential HVAC Heat Pump Retrofit
11.02	Performs start-up of HVAC systems	A9 HVAC/R System Fundamentals
		B5 HVAC/R Systems Service
		C4 Residential HVAC Systems Commissioning and Service
		C7 Residential HVAC Heat Pump Retrofit
11.03	Completes HVAC system charge	B5 HVAC/R Systems Service

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		C4 Residential HVAC Systems Commissioning and Service C7 Residential HVAC Heat Pump Retrofit
11.04	Sets up primary and secondary HVAC system components	B5 HVAC/R Systems Service C4 Residential HVAC Systems Commissioning and Service C7 Residential HVAC Heat Pump Retrofit
Task E12 – Commissions control systems		
12.01	Performs start-up checks for control systems	A10 Electrical and Control Fundamentals B6 Control Systems Service I C3 Residential HVAC Control Systems C4 Residential HVAC Systems Commissioning and Service C5 Residential HVAC Motors C7 Residential HVAC Heat Pump Retrofit
12.02	Verifies/sets operating parameters	A10 Electrical and Control Fundamentals B6 Control Systems Service I C3 Residential HVAC Control Systems C4 Residential HVAC Systems Commissioning and Service C5 Residential HVAC Motors
Task F13 – Maintains residential HVAC systems		
13.01	Inspects HVAC systems	B2 HVAC/R Activities II B5 HVAC/R Systems Service C4 Residential HVAC Systems Commissioning and Service
13.02	Performs predictive and scheduled maintenance on HVAC systems	B2 HVAC/R Activities II B5 HVAC/R Systems Service B6 Control Systems Service I C4 Residential HVAC Systems Commissioning and Service C5 Residential HVAC Motors
13.03	Tests HVAC system components and accessories	A9 HVAC/R System Fundamentals B2 HVAC/R Activities II B7 Motors I C4 Residential HVAC Systems Commissioning and Service C5 Residential HVAC Motors
Task F14 – Services residential HVAC systems		
14.01	Troubleshoots HVAC systems	A10 Electrical and Control Fundamentals B7 Motors I C4 Residential HVAC Systems Commissioning and Service C5 Residential HVAC Motors
14.02	Repairs HVAC systems	B5 HVAC/R Systems Service C4 Residential HVAC Systems Commissioning and Service
Task F15 – Maintains and services control systems		
15.01	Performs maintenance and inspection on control systems	A10 Electrical and Control Fundamentals B6 Control Systems Service I C3 Residential HVAC Control Systems
15.02	Troubleshoots control systems	A10 Electrical and Control Fundamentals B6 Control Systems Service I C3 Residential HVAC Control Systems
15.03	Calibrates operating and safety controls	B6 Control Systems Service I C3 Residential HVAC Control Systems
15.04	Repairs control systems	B6 Control Systems Service I C3 Residential HVAC Control Systems