

Refrigeration and Air Conditioning Mechanic RSOS (2019) Subtask to Unit Comparison

RSOS 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 C5 Control Systems Service II
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 C7 Duct Systems
2.02	Uses portable and stationary power tools	A3 Tools and Equipment C7 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 C7 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 C1 HVAC Estimation and Coordination C3 Control Systems Installation II C5 Control Systems Service II C7 Duct Systems D1 Refrigeration Estimation and Coordination
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 HVAC Estimation and Coordination C3 Control Systems Installation II

RSOS Subtask		Manitoba Unit(s)
		C5 Control Systems Service II
		C7 Duct Systems
		D1 Refrigeration Estimation and Coordination
3.03	Plans job tasks and procedures	A2 Trade Safety Awareness
		B3 HVAC/R Systems Installation
		C1 HVAC Estimation and Coordination
		C3 Control Systems Installation II
		C5 Control Systems Service II
		C7 Duct Systems
		D1 Refrigeration Estimation and Coordination
Task A4 – Uses communication and mentoring techniques		
4.01	Uses communication techniques	A1 Learning About Work
		A5 Trade Related Communications
		C3 Control Systems Installation II
		D7 Journeyman Trainer
4.02	Uses mentoring techniques	D7 Journeyman Trainer
Task B5 – Performs worksite preparation		
5.01	Prepares work site	A8 HVAC/R Activities I
5.02	Handles materials and supplies	A8 HVAC/R Activities I
		B2 HVAC/R Activities II
		C7 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	A8 HVAC/R Activities I
		B2 HVAC/R Activities II
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 systems	B2 HVAC/R Activities II
		C3 Control Systems Installation II
6.06	Applies sealants and adhesives	A8 HVAC/R Activities I
		C7 Duct Systems
Task C7 – Plans installation of HVAC/R systems		
7.01	Verifies HVAC/R system parameters and requirements	A10 Electrical and Control Fundamentals
		C2 HVAC Systems Installation
		C7 Duct Systems
		B4 Control Systems Installation I
		C8 HVAC Heat Pump Retrofit
		D1 Refrigeration Estimation and Coordination
		D2 Refrigeration Systems Installation
		D6 Industrial Refrigeration Systems
7.02	Selects HVAC/R equipment, components and accessories	D1 Refrigeration Estimation and Coordination
		D2 Refrigeration Systems Installation
		B3 HVAC/R Systems Installation
		C8 HVAC Heat Pump Retrofit
7.03	Determines placement of HVAC/R equipment, components and accessories	B3 HVAC/R Systems Installation
		C2 HVAC Systems Installation
		C7 Duct Systems
		C8 HVAC Heat Pump Retrofit
		D1 Refrigeration Estimation and Coordination
		D2 Refrigeration Systems Installation
7.04	Performs HVAC/R material take-off	B4 Control Systems Installation I

RSOS Subtask		Manitoba Unit(s)
		C2 HVAC Systems Installation
		C8 HVAC Heat Pump Retrofit
		D1 Refrigeration Estimation and Coordination
		D3 Control Systems Installation III
Task C8 – Plans installation of control systems		
8.01	Verifies control system parameters and requirements	A10 Electrical and Control Fundamentals
		B3 HVAC/R Systems Installation
		C3 Control Systems Installation II
		C8 HVAC Heat Pump Retrofit
		D1 Refrigeration Estimation and Coordination
		D3 Control Systems Installation III
8.02	Selects control system components and accessories	A10 Electrical and Control Fundamentals
		B3 HVAC/R Systems Installation
		C3 Control Systems Installation II
		C6 Motors II
		C8 HVAC Heat Pump Retrofit
		D1 Refrigeration Estimation and Coordination
		D3 Control Systems Installation III
8.03	Determines placement of control system components and accessories	A10 Electrical and Control Fundamentals
		B3 HVAC/R Systems Installation
		C3 Control Systems Installation II
		C8 HVAC Heat Pump Retrofit
		D1 Refrigeration Estimation and Coordination
		D3 Control Systems Installation III
8.04	Performs control system material take-off	A10 Electrical and Control Fundamentals
		B3 HVAC/R Systems Installation
		B4 Control Systems Installation I
		C1 HVAC Estimation and Coordination
		C3 Control Systems Installation II
		C8 HVAC Heat Pump Retrofit
		D1 Refrigeration Estimation and Coordination
		D3 Control Systems Installation III
Task D9 – Installs HVAC/R systems		
9.01	Confirms system layout	A9 HVAC/R System Fundamentals
		B3 HVAC/R Systems Installation
		C2 HVAC Systems Installation
		C7 Duct Systems
		C8 HVAC Heat Pump Retrofit
		D2 Refrigeration Systems Installation
		D6 Industrial Refrigeration Systems
9.02	Assembles HVAC/R equipment, components and accessories	B3 HVAC/R Systems Installation
		C2 HVAC Systems Installation
		C7 Duct Systems
		C8 HVAC Heat Pump Retrofit
		D2 Refrigeration Systems Installation
9.03	Places HVAC/R equipment, components and accessories	B3 HVAC/R Systems Installation
		C2 HVAC Systems Installation
		C7 Duct Systems
		C8 HVAC Heat Pump Retrofit
		D2 Refrigeration Systems Installation
9.04	Installs fasteners, brackets and hangers	A9 HVAC/R System Fundamentals
		C7 Duct Systems
9.05	Installs HVAC/R piping and tubing	A8 HVAC/R Activities I
		B8 Pipe Threading and Assembly
		C8 HVAC Heat Pump Retrofit
9.06	Applies HVAC/R holding charge	B2 HVAC/R Activities II
		B3 HVAC/R Systems Installation
		C4 HVAC Systems Service

RSOS Subtask		Manitoba Unit(s)
		C8 HVAC Heat Pump Retrofit
		D2 Refrigeration Systems Installation
Task D10 – Installs control systems		
10.01	Places control system components	A10 Electrical and Control Fundamentals
		B4 Control Systems Installation I
		C3 Control Systems Installation II
		C6 Motors II
		C8 HVAC Heat Pump Retrofit
		D3 Control Systems Installation III
10.02	Connects control systems	A10 Electrical and Control Fundamentals
		B4 Control Systems Installation I
		C3 Control Systems Installation II
		C6 Motors II
		C8 HVAC Heat Pump Retrofit
Task E11 – Commissions HVAC/R systems		
11.01	Performs pre-start-up checks for HVAC/R systems	A9 HVAC/R System Fundamentals
		C5 Control Systems Service II
		C8 HVAC Heat Pump Retrofit
		C4 HVAC Systems Service
		D4 Refrigeration Systems Service
		D6 Industrial Refrigeration Systems
11.02	Performs start-up of HVAC/R systems	A9 HVAC/R System Fundamentals
		B5 HVAC/R Systems Service
		C4 HVAC Systems Service
		C8 HVAC Heat Pump Retrofit
		D4 Refrigeration Systems Service
		D6 Industrial Refrigeration Systems
11.03	Completes HVAC/R system charge	B5 HVAC/R Systems Service
		C4 HVAC Systems Service
		C8 HVAC Heat Pump Retrofit
		D4 Refrigeration Systems Service
11.04	Sets up primary and secondary HVAC/R system components	B5 HVAC/R Systems Service
		C4 HVAC Systems Service
		C8 HVAC Heat Pump Retrofit
		D4 Refrigeration Systems Service
		D6 Industrial Refrigeration Systems
Task E12 – Commissions control systems		
12.01	Performs start-up checks for control systems	A10 Electrical and Control Fundamentals
		B6 Control Systems Service I
		C5 Control Systems Service II
		C6 Motors II
		C8 HVAC Heat Pump Retrofit
		D5 Control Systems Service III
12.02	Verifies/sets operating parameters	A10 Electrical and Control Fundamentals
		B6 Control Systems Service I
		C5 Control Systems Service II
		C6 Motors II
		C8 HVAC Heat Pump Retrofit
		D5 Control Systems Service III
Task F13 – Maintains HVAC/R systems		
13.01	Inspects HVAC/R systems	B2 HVAC/R Activities II
		B5 HVAC/R Systems Service
		C4 HVAC Systems Service
		D4 Refrigeration Systems Service
		D6 Industrial Refrigeration Systems

RSOS Subtask		Manitoba Unit(s)
13.02	Performs predictive and scheduled maintenance on HVAC/R systems	B2 HVAC/R Activities II
		B5 HVAC/R Systems Service
		C4 HVAC Systems Service
		D4 Refrigeration Systems Service
		D6 Industrial Refrigeration Systems
13.03	Tests HVAC/R system components and accessories	A9 HVAC/R System Fundamentals
		B2 HVAC/R Activities II
		B7 Motors I
		C4 HVAC Systems Service
		C6 Motors II
		D4 Refrigeration Systems Service
		D6 Industrial Refrigeration Systems
Task F14 – Services HVAC/R systems		
14.01	Troubleshoots HVAC/R systems	A10 Electrical and Control Fundamentals
		B7 Motors I
		C4 HVAC Systems Service
		D4 Refrigeration Systems Service
		D6 Industrial Refrigeration Systems
14.02	Repairs HVAC/R systems	B5 HVAC/R Systems Service
		C4 HVAC Systems Service
		D4 Refrigeration Systems Service
		D6 Industrial Refrigeration Systems
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
		C5 Control Systems Service II
		D5 Industrial Refrigeration Systems
15.02	Troubleshoots control systems	A10 Electrical and Control Fundamentals
		B6 Control Systems Service I
		C5 Control Systems Service II
15.03	Calibrates operating and safety controls	D5 Industrial Refrigeration Systems
		B6 Control Systems Service I
		C5 Control Systems Service II
15.04	Repairs control systems	D5 Industrial Refrigeration Systems
		B6 Control Systems Service I
		C5 Control Systems Service II
		D5 Industrial Refrigeration Systems