

## Plumber RSOS (2016) Subtask to Unit Comparison

RSOS Subtask		Manitoba Unit(s)
<b>Task 1 – Performs safety-related functions.</b>		
1.01	Maintains safe work environment.	A1.a Safety Related Functions All Units from Level 1 through Level 4
1.02	Uses personal protective equipment (PPE) and safety equipment.	A1.a Safety Related Functions All Units from Level 1 through Level 4
1.03	Performs lock-out and tag-out procedures.	All Units from Level 1 through Level 4
<b>Task 2 – Uses and maintains tools and equipment.</b>		
2.01	Uses common tools and equipment.	A2a Plumbing Tools and Equipment All Units from Level 1 through Level 4
2.02	Uses access equipment.	A2c Access Equipment
2.03	Uses rigging, hoisting, lifting and positioning equipment.	A2b Hoisting and Lifting and Rigging
2.04	Rigs loads for cranes.	A2b Hoisting and Lifting and Rigging
2.05	Uses welding equipment.	A2d Fuel Brazing and Cutting
2.06	Uses soldering and brazing equipment.	A5a Materials & Pipe, Tube and Tubing and fundamentals (Theory) A6a Pipe, Tube and Tubing and fundamentals (Practical)
2.07	Uses oxy-fuel equipment.	A2d Fuel Brazing and Cutting
<b>Task 3 – Organizes work.</b>		
3.01	Organizes project tasks and procedures.	B1b Commissioning D1c Job Planning
3.02	Organizes materials and supplies.	A5a Materials & Pipe, Tube and Tubing and fundamentals (Theory) A6a Pipe, Tube and Tubing and fundamentals (Practical)
<b>Task 4 – Performs routine trade activities.</b>		
4.01	Performs piping system layout.	A3c Drawings A7a Residential Sanitary Drainage Systems B3a Interior Drainage, Waste and Vent (DWV) Systems II C2a Commercial Waste Systems C2b Rural Water Supply C3a Water Service C4a Potable Water Distribution C4b Cross Connection Control D11a Gas Piping Systems
4.02	Calculates pipe lengths.	A8a Mathematics and Science I B5a Mathematics and Science II C9a Mathematics III C9b Trade Science III D7a Pre-IP Trade Mathematics IV & Science Review
4.03	Calculates piping offsets.	A8a Mathematics and Science I B5a Mathematics and Science II C9a Mathematics III C9b Trade Science III D7a Pre-IP Trade Mathematics IV & Science Review
4.04	Installs piping supports.	A5a Materials & Pipe, Tube and Tubing and fundamentals (Theory) A6a Materials & Pipe, Tube and Tubing and fundamentals

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		(Practical) A7a Residential Sanitary Drainage Systems B3a Interior Drainage, Waste and Vent (DWV) Systems II B4a Piping Valves II B4b Hydronic System Control C2a Commercial Waste Systems D2a Private Sewage Disposal Systems.
4.05	Installs sleeves.	A5a Materials & Pipe, Tube and Tubing and fundamentals (Theory) A6a Materials & Pipe, Tube and Tubing and fundamentals (Practical) A7a Residential Sanitary Drainage Systems B3a Interior Drainage, Waste and Vent (DWV) Systems II B4a Piping Valves II B4b Hydronic System Control C2a Commercial Waste Systems D2a Private Sewage Disposal Systems.
4.06	Commissions systems.	B1b Commissioning
4.07	Protects piping systems, equipment and structure from damage.	B1a Routine Trade Activities II
4.08	Coordinates excavation and backfilling of trenches.	A3a Routine Trade Activities I
4.09	Installs fire stopping devices and materials.	B1a Routine Trade Activities II
<b>Task 5 - Uses communication and mentoring techniques.</b>		
5.01	Uses communication techniques.	D1b Communication and Trade Documentation A4a Introduction to Computers D1c Job Planning
5.02	Uses mentoring techniques.	D1a Mentoring/Coaching
<b>Task 6 – Prepares pipe.</b>		
6.01	Inspects tube, tubing, pipe and fittings before installation.	A5a Materials & Pipe, Tube and Tubing and fundamentals (Theory) A6a Materials & Pipe, Tube and Tubing and fundamentals (Practical) A7a Residential Sanitary Drainage Systems B3a Interior Drainage, Waste and Vent (DWV) Systems II C2a Commercial Waste Systems C4a Potable Water Distribution C4b Cross Connection Control C5a Hydronic Systems (Cooling and Low Pressure Heating) D6a Process Piping
6.02	Cuts tube, tubing and pipe.	A5a Materials & Pipe, Tube and Tubing and fundamentals (Theory) A6a Materials & Pipe, Tube and Tubing and fundamentals (Practical) A7a Residential Sanitary Drainage Systems B3a Interior Drainage, Waste and Vent (DWV) Systems II C2a Commercial Waste Systems C4a Potable Water Distribution C4b Cross Connection Control C5a Hydronic Systems (Cooling and Low Pressure Heating) D6a Process Piping
6.03	Bends tube, tubing and pipe.	A5a Materials & Pipe, Tube and Tubing and fundamentals (Theory) A6a Materials & Pipe, Tube and Tubing and fundamentals (Practical)

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6.04	Prepares tube, tubing and pipe connections.	A5a Materials & Pipe, Tube and Tubing and fundamentals (Theory) A6a Materials & Pipe, Tube and Tubing and fundamentals (Practical) A7a Residential Sanitary Drainage Systems B3a Interior Drainage, Waste and Vent (DWV) Systems II C2a Commercial Waste Systems C4a Potable Water Distribution C4b Cross Connection Control C5a Hydronic Systems (Cooling and Low Pressure Heating) D6a Process Piping
<b>Task 7 – Joins tube, tubing and pipe.</b>		
7.01	Joins copper tube, tubing and pipe.	A5a Materials & Pipe, Tube and Tubing and fundamentals (Theory) A6a Materials & Pipe, Tube and Tubing and fundamentals (Practical)
7.02	Joins plastic pipe and tubing.	A5a Materials & Pipe, Tube and Tubing and fundamentals (Theory) A6a Materials & Pipe, Tube and Tubing and fundamentals (Practical)
7.03	Joins steel pipe.	A5a Materials & Pipe, Tube and Tubing and fundamentals (Theory) A6a Materials & Pipe, Tube and Tubing and fundamentals (Practical)
7.04	Joins cast iron pipe.	A5a Materials & Pipe, Tube and Tubing and fundamentals (Theory) A6a Materials & Pipe, Tube and Tubing and fundamentals (Practical)
7.05	Joins specialized pipe.	A5a Materials & Pipe, Tube and Tubing and fundamentals (Theory) A6a Materials & Pipe, Tube and Tubing and fundamentals (Practical)
<b>Task 8 – Installs, tests and services sewers. .</b>		
8.01	Sizes pipe for sewers.	C1a Storm and Combinations Drainage Systems C8a Sketching/Blueprint Reading
8.02	Installs manholes and catch basins.	C1a Storm and Combinations Drainage Systems C8a Sketching/Blueprint Reading
8.03	Installs piping for sewers.	C1a Storm and Combinations Drainage Systems C8a Sketching/Blueprint Reading
8.04	Tests manholes, catch basins and piping for sewers.	C1a Storm and Combinations Drainage Systems C8a Sketching/Blueprint Reading
8.05	Services manholes, catch basins and piping for sewers.	C1a Storm and Combinations Drainage Systems C8a Sketching/Blueprint Reading
<b>Task 9 – Installs, tests and services sewage treatment systems.</b>		
9.01	Plans installation of sewage treatment	D2a Private Sewage Disposal Systems

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	systems.	
9.02	Installs sewage treatment system components.	D2a Private Sewage Disposal Systems
9.03	Tests sewage treatment systems and components.	D2a Private Sewage Disposal Systems
9.04	Services sewage treatment systems and components.	D2a Private Sewage Disposal Systems
<b>Task 10 – Installs, tests and services interior drainage, waste and vent (DWV) systems.</b>		
10.01	Sizes pipe for interior drainage, waste and vent (DWV) systems.	A7a Residential Sanitary Drainage Systems B3a Interior Drainage, Waste and Vent (DWV) Systems II C2a Commercial Waste Systems C2b Rural Water Supply D2a Private Sewage Disposal Systems
10.02	Installs underground piping and components for interior drainage, waste and vent (DWV) systems.	B3a Interior Drainage, Waste and Vent (DWV) Systems II C2a Commercial Waste Systems C2b Rural Water Supply D2a Private Sewage Disposal Systems
10.03	Installs piping and components for interior drainage, waste and vent (DWV) above-ground systems.	B3a Interior Drainage, Waste and Vent (DWV) Systems II C2a Commercial Waste Systems C2b Rural Water Supply D2a Private Sewage Disposal Systems
10.04	Tests interior drainage, waste and vent (DWV) systems.	B3a Interior Drainage, Waste and Vent (DWV) Systems II C2a Commercial Waste Systems C2b Rural Water Supply D2a Private Sewage Disposal Systems
10.05	Services piping and components for interior drainage, waste and vent (DWV) systems.	B3a Interior Drainage, Waste and Vent (DWV) Systems II C2a Commercial Waste Systems C2b Rural Water Supply D2a Private Sewage Disposal Systems
<b>Task 11 – Installs, tests and services water services.</b>		
11.01	Sizes pipe for water services.	C2a Commercial Waste Systems C2b Rural Water Supply C4a Potable Water Distribution C4b Cross Connection Control
11.02	Installs piping for water services.	C2a Commercial Waste Systems C2b Rural Water Supply C4a Potable Water Distribution C4b Cross Connection Control
11.03	Installs water service equipment.	C2a Commercial Waste Systems C2b Rural Water Supply C4a Potable Water Distribution C4b Cross Connection Control
11.04	Tests water service piping and components.	C2a Commercial Waste Systems C2b Rural Water Supply C4a Potable Water Distribution C4b Cross Connection Control
11.05	Services water services.	C2a Commercial Waste Systems C2b Rural Water Supply C4a Potable Water Distribution C4b Cross Connection Control
<b>Task 12 – Installs, tests and services potable water distribution systems.</b>		
12.01	Sizes piping and equipment for potable water distribution systems.	C4a Potable Water Distribution C3b Rural Water Supply D3a Water Treatment Systems
12.02	Installs piping for potable water	C3b Rural Water Supply

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	distribution systems.	C4a Potable Water Distribution D3a Water Treatment Systems
12.03	Installs potable water distribution equipment.	C3b Rural Water Supply C4a Potable Water Distribution D3a Water Treatment Systems
12.04	Installs cross-connection control devices.	C4b Cross Connection Control
12.05	Tests potable water distribution systems.	C4a Potable Water Distribution C3b Rural Water Supply D3a Water Treatment Systems
12.06	Services potable water distribution systems.	C4a Potable Water Distribution C3b Rural Water Supply D3a Water Treatment Systems
<b>Task 13 – Installs, tests and services pressure systems.</b>		
13.01	Sizes pressure systems.	C6a Specialized Systems I (includes residential irrigation, compressed air, green systems) C6b Specialty Piping Systems D3a Water Treatment Systems D4a Low Pressure Steam Systems D5a Specialized Systems II (includes fuel systems, medical gas systems) D6a Process Piping
13.02	Installs piping for pressure systems.	C6a Specialized Systems I (includes residential irrigation, compressed air, green systems) C6b Specialty Piping Systems D3a Water Treatment Systems D4a Low Pressure Steam Systems D5a Specialized Systems II (includes fuel systems, medical gas systems) D6a Process Piping
13.03	Installs equipment and components for pressure systems.	C6a Specialized Systems I (includes residential irrigation, compressed air, green systems) C6b Specialty Piping Systems D3a Water Treatment Systems D4a Low Pressure Steam Systems D5a Specialized Systems II (includes fuel systems, medical gas systems) D6a Process Piping
13.04	Tests pressure systems.	C6a Specialized Systems I (includes residential irrigation, compressed air, green systems) C6b Specialty Piping Systems D3a Water Treatment Systems D4a Low Pressure Steam Systems D5a Specialized Systems II (includes fuel systems, medical gas systems) D6a Process Piping
13.05	Services pressure systems.	C6a Specialized Systems I (includes residential irrigation, compressed air, green systems) C6b Specialty Piping Systems D3a Water Treatment Systems D4a Low Pressure Steam Systems D5a Specialized Systems II (includes fuel systems, medical gas systems) D6a Process Piping
<b>Task 14 – Installs, tests and services plumbing fixtures and appliances.</b>		
14.01	Installs fixture supports.	B2a Residential Plumbing Fixtures and Accessories B2b Appliances (includes gas) B2c Piping Valves I

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		B2d Hot Water Storage Tanks and Heaters B2e Commercial/Institutional Plumbing Fixtures and Accessories
14.02	Installs plumbing fixtures and appliances.	B2a Residential Plumbing Fixtures and Accessories B2b Appliances (includes gas) B2c Piping Valves I B2d Hot Water Storage Tanks and Heaters B2e Commercial/Institutional Plumbing Fixtures and Accessories
14.03	Tests plumbing fixtures and appliances.	B2a Residential Plumbing Fixtures and Accessories B2b Appliances (includes gas) B2c Piping Valves I B2d Hot Water Storage Tanks and Heaters B2e Commercial/Institutional Plumbing Fixtures and Accessories
14.04	Services plumbing fixtures and appliances.	B2a Residential Plumbing Fixtures and Accessories B2b Appliances (includes gas) B2c Piping Valves I B2d Hot Water Storage Tanks and Heaters B2e Commercial/Institutional Plumbing Fixtures and Accessories
<b>Task 15 Installs, tests and services water treatment equipment.</b>		
15.01	Sizes water treatment equipment.	D3a Water Treatment Systems
15.02	Installs water treatment equipment.	D3a Water Treatment Systems
15.03	Tests water treatment equipment.	D3a Water Treatment Systems
15.04	Services water treatment equipment.	D3a Water Treatment Systems
<b>Task 16 - Installs, tests and services low pressure steam systems.</b>		
16.01	Sizes piping and components for low pressure steam systems.	D4a Low Pressure Steam Systems
16.02	Installs piping and components for low pressure steam systems.	D4a Low Pressure Steam Systems
16.03	Tests piping and components for low pressure steam systems.	D4a Low Pressure Steam Systems
16.04	Services piping and components for low pressure steam systems.	D4a Low Pressure Steam Systems
<b>Task 17 - Installs, tests and services hydronic heating and cooling piping systems.</b>		
17.01	Sizes piping and components for hydronic systems.	B4a Piping Valves II B4b Hydronic System Control C5a Hydronic Systems (Cooling and Low Pressure Heating) C4b Cross Connection Control
17.02	Installs piping and components for hydronic systems.	B4a Piping Valves II B4b Hydronic System Control C5a Hydronic Systems (Cooling and Low Pressure Heating) C4b Cross Connection Control
17.03	Tests piping and components for hydronic systems.	B4a Piping Valves II B4b Hydronic System Control C5a Hydronic Systems (Cooling and Low Pressure Heating) C4b Cross Connection Control
17.04	Services piping and components for hydronic systems.	B4a Piping Valves II B4b Hydronic System Control C5a Hydronic Systems (Cooling and Low Pressure Heating)

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		C4b Cross Connection Control
<b>Task 18 - Installs, tests and services hydronic heating and cooling generating systems.</b>		
18.01	Installs hydronic heating generating systems.	B4a Piping Valves II B4b Hydronic System Control C5a Hydronic Systems (Cooling and Low Pressure Heating) C4b Cross Connection Control
18.02	Installs hydronic cooling generating systems.	B4a Piping Valves II B4b Hydronic System Control C5a Hydronic Systems (Cooling and Low Pressure Heating) C4b Cross Connection Control
18.03	Tests hydronic heating and cooling generating systems.	B4a Piping Valves II B4b Hydronic System Control C5a Hydronic Systems (Cooling and Low Pressure Heating) C4b Cross Connection Control
18.04	Services hydronic heating and cooling generating systems.	B4a Piping Valves II B4b Hydronic System Control C5a Hydronic Systems (Cooling and Low Pressure Heating) C4b Cross Connection Control
<b>Task 19 - Installs, tests and services hydronic system controls and transfer units.</b>		
19.01	Installs hydronic system controls	B4b Hydronic System Control B6a Fundamentals Of Electrical Appliances and Controls C5a Hydronic Systems (Cooling and Low Pressure Heating) D4a Low Pressure Steam Systems
19.02	Installs hydronic transfer units.	B2d Hot Water Storage Tanks and Heaters B4b Hydronic System Control C5a Hydronic Systems (Cooling and Low Pressure Heating) D4a Low Pressure Steam Systems
19.03	Tests hydronic system controls and transfer units	B4b Hydronic System Control B6a Fundamentals Of Electrical Appliances and Controls C5a Hydronic Systems (Cooling and Low Pressure Heating) D4a Low Pressure Steam Systems
19.04	Services hydronic system controls and transfer units.	B4b Hydronic System Control B6a Fundamentals Of Electrical Appliances and Controls C5a Hydronic Systems (Cooling and Low Pressure Heating) D4a Low Pressure Steam Systems
<b>Task 20 - Installs, tests and services non-potable fire protection systems.</b>		
20.01	Installs non-potable fire protection systems.	C6b Specialty Piping Systems
20.02	Tests non-potable fire protection systems.	C6b Specialty Piping Systems
20.03	Services non-potable fire protection systems.	C6b Specialty Piping Systems
<b>Task 21 - Installs, tests and services flow-through fire protection systems.</b>		
21.01	Installs non-potable fire protection systems.	C6b Specialty Piping Systems
21.02	Tests non-potable fire protection systems.	C6b Specialty Piping Systems
21.03	Services non-potable fire protection systems.	C6b Specialty Piping Systems
<b>Task 22 - Installs, tests and services standpipe systems.</b>		
22.01	Installs piping and equipment for standpipe systems.	C6b Specialty Piping Systems
22.02	Tests standpipe systems.	C6b Specialty Piping Systems

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22.03	Services standpipe systems.	C6b Specialty Piping Systems
<b>Task 23 - Installs, tests and services specialized systems.</b>		
23.01	Installs piping for specialized systems.	D5a Specialized Systems II (includes fuel systems, medical gas systems)
23.02	Installs equipment and components for specialized systems.	D5a Specialized Systems II (includes fuel systems, medical gas systems)
23.03	Tests specialized systems.	D5a Specialized Systems II (includes fuel systems, medical gas systems)
23.04	Services specialized systems.	D5a Specialized Systems II (includes fuel systems, medical gas systems)
<b>Task 24 - Installs, tests and services process piping systems.</b>		
24.01	Installs piping for process piping systems.	D6a Process Piping
24.02	Installs equipment and components for process piping systems.	D6a Process Piping
24.03	Tests process piping systems.	D6a Process Piping
24.04	Services process piping systems.	D6a Process Piping



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