

## Sheet Metal Worker RSOS (2017) Subtask to Unit Comparison

RSOS Subtask		Manitoba Unit(s)
<b>Task 1 – Performs safety-related functions.</b>		
1.01	Uses personal protective equipment (PPE) and safety equipment.	A2 Trade Safety Awareness
1.02	Maintains safe work environment.	A2 Trade Safety Awareness
1.03	Performs lock-out and tag-out procedures.	A2 Tools and Equipment
<b>Task 2 – Uses and maintains tools and equipment.</b>		
2.01	Uses hand and portable power tools.	A3 Tools and Equipment
2.02	Uses shop tools and equipment.	A3 Tools and Equipment B1 Welding 2 C1 Welding 3
2.03	Uses gas metal arc welding (GMAW) equipment.	A4 Welding 1 B1 Welding 2 C1 Welding 3 D1 Welding 4
2.04	Uses resistance spot welding equipment.	A10 Fabrication 1 B7 Fabrication 2 C7 Fabrication 3 D6 Fabrication 4
2.05	Uses gas tungsten arc welding (GTAW) equipment.	C1 Welding 3
2.06	Uses shielded metal arc welding (SMAW) equipment.	B1 Welding 2
2.07	Uses oxy-fuel and plasma arc cutting equipment.	A4 Welding 1
2.08	Uses soldering/brazing equipment.	A3 Tools and Equipment A4 Welding 1 A10 Fabrication 1 B7 Fabrication 2
2.09	Uses measuring and layout equipment.	A9 Pattern Development 1
2.10	Uses testing and inspection devices.	B9 Installation 2 C10 Testing, Adjusting, Balancing D9 Leak Testing, Air Balancing & Commissioning
2.11	Uses stationary and mobile work platforms	A3 Tools and Equipment 1
2.12	Uses hoisting, rigging and positioning equipment.	A3 Tools and Equipment 1
<b>Task 3 – Organizes work.</b>		
3.01	Uses trade-related documentation.	A6 Trade-Related Documents B4 Blueprint Reading/Specifications
3.02	Interprets drawings.	A9 Pattern Development 1 B4 Blueprint Reading/Specifications
3.03	Organizes materials and equipment for project.	A6 Trade-Related Documents
3.04	Performs basic design and field modifications.	B5 Duct System Design 1 B6 Pattern Development 2
<b>Task 4 – Uses communication and mentoring techniques.</b>		

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4.01	Uses communication techniques.	A8 Communication
4.02	Uses mentoring techniques.	D10 Journeywork Trainer
<b>Task 5 – Performs pattern development.</b>		
5.01	Develops patterns using simple and straight line layout.	A9 Pattern Development 1
5.02	Develops patterns using parallel line method.	B6 Pattern Development 2 C6 Pattern Development 3
5.03	Develops patterns using radial line method.	B6 Pattern Development 2 C6 Pattern Development 3
5.04	Develops pattern using triangulation method.	B6 Pattern Development 2 C6 Pattern Development 3
5.05	Develops pattern using computer technology.	D5 Pattern Development 4
<b>Task 6 – Fabricates sheet metal components for air and material handling systems.</b>		
6.01	Cuts ductwork, fittings and components.	A10 Fabrication 1
6.02	Forms ductwork, fittings and components.	A10 Fabrication 1 B7 Fabrication 2 C7 Fabrication 3 D6 Fabrication 4
6.03	Insulates ductwork, fittings and components.	A10 Fabrication 1
6.04	Assembles ductwork, fittings and components.	A10 Fabrication 1 B7 Fabrication 2 C7 Fabrication 3 D6 Fabrication 4
6.05	Fabricates dampers.	D6 Fabrication 4
6.06	Fabricates hanger systems, supports and bases.	A10 Fabrication 1
<b>Task 7 – Fabricates flashing, roofing, sheeting and cladding.</b>		
7.01	Cuts metal for roofing, sheeting and cladding.	B8 Metal Roofing and Architectural Metal
7.02	Forms flashing, roofing, sheeting and cladding	B8 Metal Roofing and Architectural Metal
<b>Task 8 – Fabricates specialty products.</b>		
8.01	Cuts material for specialty products.	C8 Specialty Products
8.02	Forms specialty products.	C8 Specialty Products
8.03	Assembles specialty products.	C8 Specialty Products
8.04	Finishes specialty products.	C8 Specialty Products
<b>Task 9 – Prepares installation site.</b>		
9.01	Performs on-site measurements.	B9 Installation 2
9.02	Performs demolitions for renovations.	B9 Installation 2
9.03	Installs penetrations and sleeves.	B9 Installation 2
9.04	Installs supports and bases.	B9 Installation 2
9.05	Installs hangers, cables, braces and brackets.	B9 Installation 2
<b>Task 10 – Installs and connects chimneys, breeching and venting to exhaust appliances and mechanical equipment.</b>		
10.01	Installs chimney.	B10 Chimneys, Breeching and Venting
10.02	Connects appliances or mechanical equipment to chimney and breeching.	B10 Chimneys, Breeching and Venting
10.03	Installs high efficiency appliances and mechanical equipment.	B10 Chimneys, Breeching and Venting

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<b>Task 11 – Installs air handling system components.</b>		
11.01	Installs air handling equipment.	A11 Installation 1 B9 Installation 2 C9 Installation 3 D7 Installation 4
11.02	Installs sheet metal ducts and fittings.	A11 Installation 1
11.03	Installs dampers.	A11 Installation 1
11.04	Installs fire and fire/smoke dampers.	B9 Installation 2
11.05	Installs registers, grilles diffusers and louvers.	A11 Installation 1
11.06	Installs terminal boxes.	C9 Installation 3
11.07	Installs coils.	C9 Installation 3
11.08	Installs system component accessories.	B9 Installation 2 C9 Installation 3 D7 Installation 4
11.09	Installs plenums.	A11 Installation 1 C9 Installation 3
<b>Task 12 – Installs material handling system components.</b>		
12.01	Installs pneumatic and gravity material handling system components.	D7 Installation 4
12.02	Installs mechanized material handling system components.	D7 Installation 4
<b>Task 13 – Applies thermal insulation, lagging, cladding and flashing.</b>		
13.01	Applies thermal insulation to components.	D8 Thermal Insulation, Lagging, Cladding and Flashing
13.02	Applies lagging and cladding to components.	D8 Thermal Insulation, Lagging, Cladding and Flashing
13.03	Applies flashing to components.	D8 Thermal Insulation, Lagging, Cladding and Flashing
<b>Task 14 – Performs leak testing, air balancing and commissioning.</b>		
14.01	Performs leak tests.	C10 Testing, Adjusting, and Balancing D9 Leak Testing, Air Balancing & Commissioning
14.02	Performs testing, adjusting and balancing (TAB).	C10 Testing, Adjusting, and Balancing D9 Leak Testing, Air Balancing & Commissioning
14.03	Participates in the commissioning of air and material handling systems.	C10 Testing, Adjusting, and Balancing D9 Leak Testing, Air Balancing & Commissioning
<b>Task 15 – Installs metal roofing and cladding/siding systems.</b>		
15.01	Lays out roof and walls.	B8 Metal Roofing and Architectural Metal
15.02	Installs insulation, isolation material, and building envelope contents.	B8 Metal Roofing and Architectural Metal
15.03	Installs roofing and cladding/siding system components.	B8 Metal Roofing and Architectural Metal
15.04	Seals exposed joints.	B8 Metal Roofing and Architectural Metal
15.05	Installs decking.	B8 Metal Roofing and Architectural Metal
<b>Task 16 – Installs exterior components.</b>		
16.01	Prepares surface.	B8 Metal Roofing and Architectural Metal
16.02	Fastens exterior components.	B8 Metal Roofing and Architectural Metal
<b>Task 17 – Installs specialty products.</b>		
17.01	Installs stainless steel specialty products.	C8 Specialty Products
17.02	Installs non-stainless steel specialty products.	C8 Specialty Products
17.03	Installs marine products.	C8 Specialty Products

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<b>Task 18 – Performs scheduled maintenance.</b>		
18.01	Performs maintenance inspection.	C11 Maintenance and Repair
18.02	Services components.	C11 Maintenance and Repair
<b>Task 19 – Repairs faulty systems and components.</b>		
19.01	Diagnoses system faults.	C11 Maintenance and Repair
19.02	Repairs worn or faulty components.	C11 Maintenance and Repair



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