

Sheet Metal Worker NOA (2007) Subtask to Unit Comparison

NOA Subtask		Manitoba Unit(s)
Task 1 – Uses tools and equipment.		
1.01	Uses hand tools.	A5 Tools and Equipment
1.02	Uses portable power tools.	A5 Tools and Equipment
1.03	Uses shop tools and equipment.	A5 Tools and Equipment
1.04	Uses welding/cutting equipment.	A5 Tools and Equipment
		A7 Metallurgy
		A8 Introduction to Gas Metal Arc Welding (GMAW)
		A10 Plasma Arc Cutting
		A9 Advanced Gas Metal Arc Welding (GMAW)
		A17 Introduction to Gas Tungsten Arc Welding (GTAW)
		A18 Advanced Gas Tungsten Arc Welding (GTAW)
		A20 Shielded Metal Arc Welding (SMAW)
		A21 Oxy-fuel Cutting, Heating and Brazing
1.05	Uses soldering/brazing equipment.	A11 Soldering
		A21 Oxy-fuel Cutting, Heating and Brazing
1.06	Uses measuring and layout equipment.	A12 Pattern Development and Layout
1.07	Uses ladders and platforms.	A6 Elevating Devices
1.08	Uses hoisting and rigging equipment.	A13 Basic Hoisting, Lifting and Rigging
1.09	Uses testing devices.	F2 Testing, Adjusting and Balancing (Air and Material Handling Systems)
1.10	Uses computers.	C1 Drafting
1.11	Uses personal protective equipment (PPE) and safety equipment.	A3 Trade Safety Awareness
Task 2 – Organizes work.		
2.01	Maintains safe work environment.	A3 Trade Safety Awareness
2.02	Interprets documentation.	C3 Trade Related Documents
2.03	Completes documentation.	C3 Trade Related Documents
2.04	Interprets drawings.	A12 Pattern Development and Layout
		A14 Introduction to Blueprint Reading/Specifications
		A15 Blueprint Reading/Specifications
		A16 Advanced Blueprint Reading/Specifications
2.05	Communicates with others.	A4 Communication
2.06	Organizes materials.	C3 Trade Related Documents
2.07	Performs basic design.	A12 Pattern Development and Layout
		A19 Duct System Design
2.08	Performs inspection.	F1 Maintenance and Repair (Air and Material Handling Systems)
Task 3 – Performs pattern development.		
3.01	Develops pattern using triangulation method.	C13 Triangulation I
		C14 Triangulation II
		C15 Triangulation III
3.02	Develops pattern using radial line method.	C10 Radial Line Development I
		C11 Radial Line Development II
		C12 Radial Line Development III

3.03	Develops pattern using parallel line method.	C7 Parallel Line Development I
		C8 Parallel Line Development II
		C9 Parallel Line Development III
3.04	Develops pattern using simple and straight line layout.	C2 Simple Layout
3.05	Develops pattern using computer technology.	C1 Drafting
3.06	Labels pieces.	C2 Simple Layout
		C7 Parallel Line Development I
		C10 Radial Line Development I
		C13 Triangulation I
		C5 Fabrication (Air Handling Systems and Components)
		C6 Fabrication (Material Handling Systems and Components)
Task 4 – Fabricates sheet metal components for air and material handling systems.		
4.01	Cuts ductwork, fittings and components.	C4 Fabrication Fundamentals
		C5 Fabrication (Air Handling Systems and Components)
4.02	Forms ductwork, fittings and components.	C4 Fabrication Fundamentals
		C5 Fabrication (Air Handling Systems and Components)
		C6 Fabrication (Material Handling Systems and Components)
4.03	Insulates ductwork, fittings and components.	C4 Fabrication Fundamentals
		C5 Fabrication (Air Handling Systems and Components)
		C6 Fabrication (Material Handling Systems and Components)
4.04	Assembles ductwork, fittings and components.	C4 Fabrication Fundamentals
		C5 Fabrication (Air Handling Systems and Components)
		C6 Fabrication (Material Handling Systems and Components)
4.05	Fabricates dampers.	C5 Fabrication (Air Handling Systems and Components)
		C6 Fabrication (Material Handling Systems and Components)
4.06	Fabricates flexible connections.	C5 Fabrication (Air Handling Systems and Components)
		C6 Fabrication (Material Handling Systems and Components)
4.07	Fabricates hanger systems.	C5 Fabrication (Air Handling Systems and Components)
		C6 Fabrication (Material Handling Systems and Components)
4.08	Fabricates equipment supports and bases.	C5 Fabrication (Air Handling Systems and Components)
		C6 Fabrication (Material Handling Systems and Components)
Task 5 – Fabricates roofing, sheeting and cladding.		
5.01	Determines seams.	E1 Metal Roofing and Architectural Metal
5.02	Cuts metal for roofing, sheeting and cladding.	
5.03	Forms flashing and roofing.	
Task 6 – Fabricates specialty products.		
6.01	Determines specialty products for application and measurements.	E2 Specialty Products
6.02	Cuts material for specialty products.	
6.03	Forms specialty products.	

6.04	Assembles products.	
6.05	Finishes material.	
Task 7 – Installs chimneys, breeching and venting.		
7.01	Installs bracing, hangers and supports.	D3 Chimneys, Breeching and Venting
7.02	Installs flashing.	
7.03	Connects chimney to appliance.	
7.04	Installs cladding and lagging to mechanical components.	
Task 8 – Installs air and material handling system sheet metal components.		
8.01	Prepares installation site.	D1 Installation (Air Handling Systems) D2 Installation (Material Handling Systems)
8.02	Installs hangers, braces and brackets.	D1 Installation (Air Handling Systems) D2 Installation (Material Handling Systems)
8.03	Installs sheet metal ducts and fittings.	D1 Installation (Air Handling Systems) D2 Installation (Material Handling Systems)
8.04	Finishes seams, joints and penetrations.	D1 Installation (Air Handling Systems) D2 Installation (Material Handling Systems)
8.05	Applies insulation and cladding to outside ducting.	D1 Installation (Air Handling Systems) D2 Installation (Material Handling Systems)
Task 9 – Installs air handling system components.		
9.01	Installs air handlers.	D1 Installation (Air Handling Systems)
9.02	Installs dampers.	D1 Installation (Air Handling Systems)
9.03	Installs fire dampers.	D1 Installation (Air Handling Systems)
9.04	Installs registers, grilles diffusers and louvers.	D1 Installation (Air Handling Systems)
9.05	Installs coils.	D1 Installation (Air Handling Systems) D4 Air Quality Management
9.06	Installs heat and energy recovery ventilators.	D1 Installation (Air Handling Systems) D4 Air Quality Management
9.07	Installs system component accessories.	D1 Installation (Air Handling Systems) D4 Air Quality Management
Task 10 – Installs material handling system components.		
10.01	Installs equipment supports and bases.	D2 Installation (Material Handling Systems)
10.02	Installs fans.	
10.03	Installs collection devices.	
10.04	Installs separating devices.	
Task 11 – Performs testing, adjusting and balancing.		
11.01	Performs leak tests.	F2 Testing, Adjusting and Balancing (Air and Material Handling Systems)
11.02	Performs air balancing.	
Task 12 – Installs metal roofing and cladding systems.		
12.01	Lays out roof and walls.	E1 Metal Roofing and Architectural Metal
12.02	Installs insulation, waterproof membrane, isolation material, and building envelope.	
12.03	Installs roofing and cladding system components.	
12.04	Seals exposed joints.	
12.05	Installs decking.	

Task 13 – Installs exterior components.		
13.01	Prepares surface.	E1 Metal Roofing and Architectural Metal
13.02	Fastens exterior components.	
Task 14 – Installs specialty products.		
14.01	Installs stainless steel specialty products.	A7 Metallurgy
		E2 Specialty Products
14.02	Installs non-stainless steel products.	E2 Specialty Products
Task 15 – Performs scheduled maintenance.		
15.01	Performs maintenance inspection.	F1 Maintenance and Repair (Air and Material Handling Systems)
15.02	Services components.	
Task 16 – Repairs faulty systems and components.		
16.01	Identifies worn, faulty or missing components.	F1 Maintenance and Repair (Air and Material Handling Systems)
16.02	Repairs worn, faulty or obsolete components.	