

Industrial Welder NOA (2014) Subtask to Unit Comparison

NOA Subtask		Manitoba Unit(s)
Task 1 – Maintains tools and equipment.		
1.01	Maintains hand, power, layout and measuring tools.	A1 Trade Safety Awareness A3 Equipment
1.02	Maintains stationary machinery.	A1 Trade Safety Awareness A3 Equipment
1.03	Maintains thermal cutting equipment.	A1 Trade Safety Awareness A3 Equipment
1.04	Maintains welding equipment.	A1 Trade Safety Awareness A3 Equipment
Task 2 – Uses access and material handling equipment.		
2.01	Uses access equipment.	A1 Trade Safety Awareness D1 Introduction to Welding Processes
2.02	Uses rigging, hoisting and lifting equipment.	A1 Trade Safety Awareness D1 Introduction to Welding Processes
Task 3 – Performs safety-related activities.		
3.01	Performs hazard assessments.	A1 Trade Safety Awareness D2 Quality Assurance
3.02	Maintains safe work environment	A1 Trade Safety Awareness D2 Quality Assurance
3.03	Uses personal protective equipment (PPE) and safety.	A1 Trade Safety Awareness D2 Quality Assurance
Task 4 – Organizes work.		
4.01	Uses documentation and reference material.	A1 Trade Safety Awareness B2 Layout, Pattern Development, Jigs and Fixtures D2 Quality Assurance
4.02	Plans job tasks.	A1 Trade Safety Awareness B2 Layout, Pattern Development, Jigs and Fixtures D2 Quality Assurance
4.03	Organizes materials.	A1 Trade Safety Awareness B2 Layout, Pattern Development, Jigs and Fixtures D2 Quality Assurance
Task 5 – Performs routine trade activities.		
5.01	Performs quality inspection.	A1 Trade Safety Awareness D1 Introduction to Welding Processes
5.02	Marks, welds, materials and parts.	A1 Trade Safety Awareness D1 Introduction to Welding Processes
5.03	Controls temperature of weldments.	A1 Trade Safety Awareness D1 Introduction to Welding Processes
5.04	Stores welding consumables.	A1 Trade Safety Awareness D1 Introduction to Welding Processes
5.05	Selects welding processes and power source.	A1 Trade Safety Awareness D1 Introduction to Welding Processes
5.06	Performs equipment start-up and shut-down.	A1 Trade Safety Awareness D1 Introduction to Welding Processes
5.07	Finishes final product.	A1 Trade Safety Awareness D1 Introduction to Welding Processes

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Task 6 – Performs layout.		
6.01	Develops templates.	B2 Layout, Pattern Development, Jigs and Fixtures
6.02	Transfers dimensions from drawings to materials.	B2 Layout, Pattern Development, Jigs and Fixtures
Task 7 – Fabricates components.		
7.01	Prepares materials.	B1 Fabrication Fundamentals
7.02	Fits components for welding.	B1 Fabrication Fundamentals
7.03	Assembles components.	B1 Fabrication Fundamentals
Task 8 – Uses tools and equipment for non-thermal cutting and grinding		
8.01	Selects cutting and grinding tools.	C1 Cutting Processes
8.02	Cuts using stationary band saws and power hacksaws.	C1 Cutting Processes
8.03	Cuts using shears and ironworkers.	C1 Cutting Processes
8.04	Cuts using hand tools.	C1 Cutting Processes
8.05	Cuts using handheld power tools.	C1 Cutting Processes
Task 9 – Uses oxy-fuel gas cutting process (OFC) for cutting and gouging.		
9.01	Selects OFC gas and equipment.	C3 Oxy-fuel welding
9.02	Sets up OFC equipment.	C3 Oxy-fuel welding
9.03	Sets up operating parameters for OFC equipment.	C3 Oxy-fuel welding
9.04	Performs cut and gouge using OFC equipment.	C3 Oxy-fuel welding
Task 10 – Uses plasma arc cutting (PAC) process for cutting and gouging.		
10.01	Selects (PAC) equipment and consumables.	C1 Cutting Processes
10.02	Sets up PAC equipment.	C1 Cutting Processes
10.03	Sets operating parameters for PAC equipment.	C1 Cutting Processes
10.04	Performs cut or gouge using PAC equipment.	C1 Cutting Processes
Task 11 – Uses air carbon arc cutting (CAC-A) process for cutting and gouging.		
11.01	Selects CAC-A equipment and consumables.	C1 Cutting Processes D13 Special Processes
11.02	Sets up CAC-A equipment.	C1 Cutting Processes D13 Special Processes
11.03	Sets operating parameters for CAC-A equipment.	C1 Cutting Processes D13 Special Processes
11.04	Performs cut and gouge using CAC-A equipment.	C1 Cutting Processes D13 Special Processes
Task 12 – Welds using shielded metal arc welding (SMAW) process.		
12.01	Selects SMAW equipment and consumables.	D3 Shielded Metal Arc Welding (SMAW) I D4 Shielded Metal Arc Welding (SMAW) II D5 Shielded Metal Arc Welding (SMAW) III
12.02	Sets up SMAW equipment.	D3 Shielded Metal Arc Welding (SMAW) I D4 Shielded Metal Arc Welding (SMAW) II D5 Shielded Metal Arc Welding (SMAW) III
12.03	Selects operating parameters for SMAW.	D3 Shielded Metal Arc Welding (SMAW) I D4 Shielded Metal Arc Welding (SMAW) II D5 Shielded Metal Arc Welding (SMAW) III
12.04	Performs weld with SMAW equipment.	D3 Shielded Metal Arc Welding (SMAW) I D4 Shielded Metal Arc Welding (SMAW) II D5 Shielded Metal Arc Welding (SMAW) III

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Task 13 – Welds using flux cored arc welding (FCAW), metal cored arc welding process (MCAW) and gas metal arc welding process (GMAW) processes.		
13.01	Selects FCAW, MCAW and GMAW gas, equipment and consumables.	D6 Gas Metal Arc Welding (GMAW) I D7 Gas Metal Arc Welding (GMAW) II D8 Gas Metal Arc Welding (GMAW) III D11 Flux Core Arc Welding (FCAW) I D12 Flux Core Arc Welding (FCAW) II D14 Practicum II
13.02	Sets up FCAW, MCAW and GMAW equipment.	D6 Gas Metal Arc Welding (GMAW) I D7 Gas Metal Arc Welding (GMAW) II D8 Gas Metal Arc Welding (GMAW) III D11 Flux Core Arc Welding (FCAW) I D12 Flux Core Arc Welding (FCAW) II D14 Practicum II
13.03	Sets operating parameters for FCAW, MCAW and GMAW.	D6 Gas Metal Arc Welding (GMAW) I D7 Gas Metal Arc Welding (GMAW) II D8 Gas Metal Arc Welding (GMAW) III D11 Flux Core Arc Welding (FCAW) I D12 Flux Core Arc Welding (FCAW) II D14 Practicum II
13.04	Performs weld using FCAW, MCAW and GMAW equipment.	D6 Gas Metal Arc Welding (GMAW) I D7 Gas Metal Arc Welding (GMAW) II D8 Gas Metal Arc Welding (GMAW) III D11 Flux Core Arc Welding (FCAW) I D12 Flux Core Arc Welding (FCAW) II D14 Practicum II
Task 14 – Selects (GTAW) gas, equipment and consumables.		
14.01	Selects GTAW gas, equipment and consumables.	D9 Gas Tungsten Arc Welding (GTAW) I D10 Gas Tungsten Arc Welding (GTAW) II
14.02	Sets up GTAW equipment.	D9 Gas Tungsten Arc Welding (GTAW) I D10 Gas Tungsten Arc Welding (GTAW) II
14.03	Sets operating parameters for GTAW.	D9 Gas Tungsten Arc Welding (GTAW) I D10 Gas Tungsten Arc Welding (GTAW) II
14.04	Performs weld using GTAW equipment.	D9 Gas Tungsten Arc Welding (GTAW) I D10 Gas Tungsten Arc Welding (GTAW) II
Task 15 – Welds using submerged arc welding (SAW) process.		
15.01	Selects SAW equipment and consumables.	D13 Special Processes
15.02	Sets up SAW equipment.	D13 Special Processes
15.03	Sets operating parameters for SAW.	D13 Special Processes
15.04	Performs weld using SAW equipment.	D13 Special Processes