

Welder RSOS (2023) Subtask to Unit Comparison

RSOS Subtask		Manitoba Unit(s)
Task A1 – Maintains tools and equipment		
1.01	Maintains hand, power, layout and measuring tools	A3 Tools and Equipment
1.02	Maintains stationary machinery	A3 Tools and Equipment
1.03	Maintains thermal cutting equipment	A9 Thermal Cutting and Gouging
1.04	Maintains welding equipment	A11 Shielded Metal Arc Welding I
		B4 Shielded Metal Arc Welding II
		C2 Shielded Metal Arc Welding III
		A12 Semi-Automatic Wire Feed Welding I
		B5 Semi-Automatic Wire Feed Welding II
		C3 Semi-Automatic Wire Feed Welding III
		B6 Gas Tungsten Arc Welding I
		C4 Gas Tungsten Arc Welding II
		B7 Submerged Arc Welding I
		C5 Submerged Arc Welding II
Task A2 – Uses access and material handling equipment		
2.01	Uses access equipment	A6 Material Handling and Access Equipment
2.02	Uses material handling equipment	A6 Material Handling and Access Equipment
Task A3 – Performs safety-related activities		
3.01	Performs hazard assessments	A2 Trade Safety Awareness
		In-context all units
3.02	Maintains safe work environment	A2 Trade Safety Awareness
		In-context all units
3.03	Uses personal protective equipment (PPE) and safety equipment	A2 Trade Safety Awareness
		In-context all units
Task A4 – Organizes work		
4.01	Uses documentation and reference material	A7 Drawings and Welding Symbols
		B1 Welding Codes and Job Planning
4.02	Interprets drawings and welding symbols	A7 Drawings and Welding Symbols
		B1 Welding Codes and Job Planning
4.03	Plans job tasks	A7 Drawings and Welding Symbols
		B1 Welding Codes and Job Planning
4.04	Organizes materials	A7 Drawings and Welding Symbols
		B1 Welding Codes and Job Planning
Task A5 – Performs routine trade activities		
5.01	Performs quality inspection	A8 Weld Process and Quality Inspection I
		B2 Weld Process and Quality Inspection II
		C1 Weld Process and Quality Inspection III
5.02	Marks welds, materials and parts	A8 Weld Process and Quality Inspection I
		B2 Weld Process and Quality Inspection II
		C1 Weld Process and Quality Inspection III
5.03	Controls temperature of weldments	A8 Weld Process and Quality Inspection I
		B2 Weld Process and Quality Inspection II
		C1 Weld Process and Quality Inspection III

RSOS Subtask		Manitoba Unit(s)
5.04	Stores welding consumables and gas cylinders	A8 Weld Process and Quality Inspection I
		B2 Weld Process and Quality Inspection II
		C1 Weld Process and Quality Inspection III
5.05	Selects welding processes and power source	A8 Weld Process and Quality Inspection I
		B2 Weld Process and Quality Inspection II
		C1 Weld Process and Quality Inspection III
5.06	Performs equipment start-up and shut-down	A8 Weld Process and Quality Inspection I
		B2 Weld Process and Quality Inspection II
		C1 Weld Process and Quality Inspection III
5.07	Finishes final product	A8 Weld Process and Quality Inspection I
		B2 Weld Process and Quality Inspection II
		C1 Weld Process and Quality Inspection III
Task A6 – Uses communication and mentoring techniques		
6.01	Uses communication techniques	A1 Learning About Work
		A4 Trade Related Communication
6.02	Uses mentoring techniques	C6 Journeyperson Trainer
Task B7 – Performs layout		
7.01	Develops templates	A10 Layout and Fabrication I
		B3 Layout and Fabrication II
		A5 Trade Related Mathematics
7.02	Transfers dimensions from drawings to materials	A10 Layout and Fabrication I
		B3 Layout and Fabrication II
		A5 Trade Related Mathematics
Task B8 – Fabricates components		
8.01	Prepares materials	A10 Layout and Fabrication I
		B3 Layout and Fabrication II
8.02	Fits components for welding	A10 Layout and Fabrication I
		B3 Layout and Fabrication II
8.03	Assembles components	A10 Layout and Fabrication I
		B3 Layout and Fabrication II
Task C9 – Uses tools and equipment for non-thermal cutting and grinding		
9.01	Selects cutting and grinding tools	A3 Tools and Equipment
9.02	Cuts using stationary power tools	A3 Tools and Equipment
9.03	Cuts using shears and ironworkers	A3 Tools and Equipment
9.04	Cuts using hand tools	A3 Tools and Equipment
9.05	Cuts using portable power tools	A3 Tools and Equipment
Task C10 – Uses oxy-fuel gas cutting (OFC) process for cutting and gouging		
10.01	Selects OFC gas and equipment	A9 Thermal Cutting and Gouging
10.02	Sets up OFC equipment	A9 Thermal Cutting and Gouging
10.03	Sets operating parameters for OFC equipment	A9 Thermal Cutting and Gouging
10.04	Performs cut and gouge using OFC equipment	A9 Thermal Cutting and Gouging
Task C11 – Uses plasma arc cutting (PAC) process for cutting and gouging		
11.01	Selects PAC equipment and consumables	A9 Thermal Cutting and Gouging
11.02	Sets up PAC equipment	A9 Thermal Cutting and Gouging
11.03	Sets operating parameters for PAC equipment	A9 Thermal Cutting and Gouging
11.04	Performs cut and gouge using PAC equipment	A9 Thermal Cutting and Gouging
Task E12 – Uses air carbon arc cutting (CAC-A) process for cutting and gouging		

RSOS Subtask		Manitoba Unit(s)
12.01	Selects CAC-A equipment and consumables	A9 Thermal Cutting and Gouging
12.02	Sets up CAC-A equipment	A9 Thermal Cutting and Gouging
12.03	Sets operating parameters for CAC-A equipment	A9 Thermal Cutting and Gouging
12.04	Performs cut and gouge using CAC-A equipment	A9 Thermal Cutting and Gouging
Task D13 – Welds using shielded metal arc welding (SMAW) process		
13.01	Selects SMAW equipment and consumables	A11 Shielded Metal Arc Welding I
		B4 Shielded Metal Arc Welding II
		C2 Shielded Metal Arc Welding III
13.02	Sets up SMAW equipment	A11 Shielded Metal Arc Welding I
		B4 Shielded Metal Arc Welding II
		C2 Shielded Metal Arc Welding III
13.03	Sets operating parameters for SMAW	A11 Shielded Metal Arc Welding I
		B4 Shielded Metal Arc Welding II
		C2 Shielded Metal Arc Welding III
13.04	Performs weld using SMAW equipment	A11 Shielded Metal Arc Welding I
		B4 Shielded Metal Arc Welding II
		C2 Shielded Metal Arc Welding III
Task D14 – Welds using flux cored arc welding (FCAW), metal cored arc welding (MCAW) and gas metal arc welding (GMAW) processes		
14.01	Selects FCAW, MCAW and GMAW gas, equipment and consumables	A12 Semi-Automatic Wire Feed Welding I
		B5 Semi-Automatic Wire Feed Welding II
		C3 Semi-Automatic Wire Feed Welding III
14.02	Sets up FCAW, MCAW and GMAW equipment	A12 Semi-Automatic Wire Feed Welding I
		B5 Semi-Automatic Wire Feed Welding II
		C3 Semi-Automatic Wire Feed Welding III
14.03	Sets operating parameters for FCAW, MCAW and GMAW	A12 Semi-Automatic Wire Feed Welding I
		B5 Semi-Automatic Wire Feed Welding II
		C3 Semi-Automatic Wire Feed Welding III
14.04	Performs weld using FCAW, MCAW and GMAW equipment	A12 Semi-Automatic Wire Feed Welding I
		B5 Semi-Automatic Wire Feed Welding II
		C3 Semi-Automatic Wire Feed Welding III
Task D15 – Welds using gas tungsten arc welding (GTAW) process		
15.01	Selects GTAW gas, equipment and consumables	B6 Gas Tungsten Arc Welding I
		C4 Gas Tungsten Arc Welding II
15.02	Sets up GTAW equipment	B6 Gas Tungsten Arc Welding I
		C4 Gas Tungsten Arc Welding II
15.03	Sets operating parameters for GTAW	B6 Gas Tungsten Arc Welding I
		C4 Gas Tungsten Arc Welding II
15.04	Performs weld using GTAW equipment	B6 Gas Tungsten Arc Welding I
		C4 Gas Tungsten Arc Welding II
Task D16 – Welds using submerged arc welding (SAW) process		
16.01	Selects SAW equipment and consumables	B7 Submerged Arc Welding I
		C5 Submerged Arc Welding II
16.02	Sets up SAW equipment	B7 Submerged Arc Welding I
		C5 Submerged Arc Welding II
16.03	Sets operating parameters for SAW	B7 Submerged Arc Welding I
		C5 Submerged Arc Welding II
16.04	Performs weld using SAW equipment	B7 Submerged Arc Welding I
		C5 Submerged Arc Welding II