

## Welder

STRUCTURE - 2014			STRUCTURE - 2023			came from
<b>Block A</b> <b>COMMON OCCUPATIONAL SKILLS</b>			<b>MWA A</b>	<b>MWA A</b>	<b>Performs common occupational skills</b>	<b>BLOCK A</b>
<b>Task 1</b> <b>Maintains tools and equipment.</b>			<b>Task 1</b>	<b>Task 1</b>	<b>Maintains tools and equipment</b>	<b>Task 1</b>
1.01 Maintains hand, power, layout and measuring tools.			1.01	1.01	Maintains hand, power, layout and measuring tools	1.01
1.02 Maintains stationary machinery.			1.02	1.02	Maintains stationary machinery	1.02
1.03 Maintains thermal cutting equipment.			1.03	1.03	Maintains thermal cutting equipment	1.03
1.04 Maintains welding equipment.			1.04	1.04	Maintains welding equipment	1.04
<b>Task 2</b> <b>Uses access and material handling equipment</b>			<b>Task 2</b>	<b>Task 2</b>	<b>Uses access and material handling equipment</b>	<b>Task 2</b>
2.01 Uses access equipment.			2.01	2.01	Uses access equipment	2.01
2.02 Uses rigging, hoisting and lifting equipment.			2.02	2.02	Uses rigging, hoisting and lifting equipment	2.02
<b>Task 3</b> <b>Performs safety-related activities.</b>			<b>Task 3</b>	<b>Task 3</b>	<b>Performs safety-related activities</b>	<b>Task 3</b>
3.01 Performs hazard assessments.			3.01	3.01	Performs hazard assessments	3.01
3.02 Maintains safe work environment.			3.02	3.02	Maintains safe work environment	3.02
3.03 Uses personal protective equipment (PPE) and safety equipment.			3.03	3.03	Uses personal protective equipment (PPE) and safety equipment	3.03
<b>Task 4</b> <b>Organizes work.</b>			<b>Task 4</b>	<b>Task 4</b>	<b>Organizes work</b>	<b>Task 4</b>
4.01 Uses documentation and reference material.	4.01, 4.02	4.01	4.01	4.01	Uses documentation and reference material	4.01
				4.02	Interprets drawings and welding symbols	NEW, 4.01
4.02 Plans job tasks.			4.03	4.03	Plans job tasks	4.02
4.03 Organizes materials.			4.04	4.04	Organizes materials	4.03
<b>Task 5</b> <b>Performs routine trade activities.</b>			<b>Task 5</b>	<b>Task 5</b>	<b>Performs routine trade activities</b>	<b>Task 5</b>
5.01 Performs quality inspection.	5.01	5.01	5.01	5.01	Performs quality inspection	5.01
5.02 Marks welds, materials and parts.	5.02	5.02	5.02	5.02	Marks welds, materials and parts	5.02
5.03 Controls temperature of weldments.	5.03	5.03	5.03	5.03	Controls temperature of weldments	5.03
5.04 Stores welding consumables.	5.04	5.04	5.04	5.04	Stores welding consumables and gas cylinders	5.04
5.05 Selects welding processes and power source.	5.05	5.05	5.05	5.05	Selects welding processes and power source	5.05
5.06 Performs equipment start-up and shut-down.	5.06	5.06	5.06	5.06	Performs equipment start-up and shut-down	5.06
5.07 Finishes final product.	5.07	5.07	5.07	5.07	Finishes final product	5.07
					<b>Task 6</b> <b>Uses communication and mentoring techniques</b>	
					6.01 Uses communication techniques	NEW
					6.02 Uses mentoring techniques	NEW
<b>Block B</b> <b>FABRICATION AND PREPARATION OF COMPONENTS FOR WELDING</b>			<b>MWA B</b>	<b>MWA B</b>	<b>Performs layout and fabrication of components for welding</b>	<b>BLOCK B</b>
<b>Task 6</b> <b>Performs layout.</b>			<b>Task 7</b>	<b>Task 7</b>	<b>Performs layout</b>	<b>Task 6</b>
6.01 Develops templates.	7.01	7.01	7.01	7.01	Develops templates	6.01
6.02 Transfers dimensions from drawings to materials.	7.02	7.02	7.02	7.02	Transfers dimensions from drawings to materials	6.02
<b>Task 7</b> <b>Fabricates components.</b>			<b>Task 8</b>	<b>Task 8</b>	<b>Fabricates components</b>	<b>Task 7</b>
7.01 Prepares materials.	8.01	8.01	8.01	8.01	Prepares materials	7.01
7.02 Fits components for welding.	8.02	8.02	8.02	8.02	Fits components for welding	7.02
7.03 Assembles components.	8.03	8.03	8.03	8.03	Assembles components	7.03
<b>Block C</b> <b>CUTTING AND GOUGING</b>			<b>MWA C</b>	<b>MWA C</b>	<b>Performs cutting and gouging</b>	<b>BLOCK C</b>
<b>Task 8</b> <b>Uses tools and equipment for non-thermal cutting and grinding.</b>			<b>Task 9</b>	<b>Task 9</b>	<b>Uses tools and equipment for non-thermal cutting and grinding</b>	<b>Task 8</b>
8.01 Selects cutting and grinding tools.	9.01	9.01	9.01	9.01	Selects cutting and grinding tools	8.01
8.02 Cuts using stationary band saws and power hacksaws.	9.02	9.02	9.02	9.02	Cuts using stationary power tools	8.02
8.03 Cuts using shears and ironworkers.	9.03	9.03	9.03	9.03	Cuts using shears and ironworkers	8.03
8.04 Cuts using hand tools.	9.04	9.04	9.04	9.04	Cuts using hand tools	8.04
8.05 Cuts using handheld power tools.	9.05	9.05	9.05	9.05	Cuts using portable power tools	8.05
<b>Task 9</b> <b>Uses oxy-fuel gas cutting (OFC) process for cutting and gouging.</b>			<b>Task 10</b>	<b>Task 10</b>	<b>Uses oxy-fuel gas cutting (OFC) process for cutting and gouging</b>	<b>Task 9</b>
9.01 Selects OFC gas and equipment.	10.01	10.01	10.01	10.01	Selects OFC gas and equipment	9.01
9.02 Sets up OFC equipment.	10.02	10.02	10.02	10.02	Sets up OFC equipment	9.02
9.03 Sets operating parameters for OFC equipment.	10.03	10.03	10.03	10.03	Sets operating parameters for OFC equipment	9.03
9.04 Performs cut and gouge using OFC equipment.	10.04	10.04	10.04	10.04	Performs cut and gouge using OFC equipment	9.04
<b>Task 10</b> <b>Uses plasma arc cutting (PAC) process for cutting and gouging.</b>			<b>Task 11</b>	<b>Task 11</b>	<b>Uses plasma arc cutting (PAC) process for cutting and gouging</b>	<b>Task 10</b>
10.01 Selects PAC equipment and consumables.	11.01	11.01	11.01	11.01	Selects PAC equipment and consumables	10.01
10.02 Sets up PAC equipment.	11.02	11.02	11.02	11.02	Sets up PAC equipment	10.02
10.03 Sets operating parameters for PAC equipment.	11.03	11.03	11.03	11.03	Sets operating parameters for PAC equipment	10.03
10.04 Performs cut and gouge using PAC equipment.	11.04	11.04	11.04	11.04	Performs cut and gouge using PAC equipment	10.04
<b>Task 11</b> <b>Uses air carbon arc cutting (CAC-A) process for cutting and gouging.</b>			<b>Task 12</b>	<b>Task 12</b>	<b>Uses air carbon arc cutting (CAC-A) process for cutting and gouging</b>	<b>Task 11</b>
11.01 Selects CAC-A equipment and consumables.	12.01	12.01	12.01	12.01	Selects CAC-A equipment and consumables	11.01
11.02 Sets up CAC-A equipment.	12.02	12.02	12.02	12.02	Sets up CAC-A equipment	11.02
11.03 Sets operating parameters for CAC-A equipment.	12.03	12.03	12.03	12.03	Sets operating parameters for CAC-A equipment	11.03
11.04 Performs cut and gouge using CAC-A equipment.	12.04	12.04	12.04	12.04	Performs cut and gouge using CAC-A equipment	11.04
<b>Block D</b> <b>WELDING PROCESSES</b>			<b>MWA D</b>	<b>MWA D</b>	<b>Performs welding processes</b>	<b>BLOCK D</b>
<b>Task 12</b> <b>Welds using shielded metal arc welding (SMAW) process.</b>			<b>Task 13</b>	<b>Task 13</b>	<b>Welds using shielded metal arc welding (SMAW) process</b>	<b>Task 12</b>
12.01 Selects SMAW equipment and consumables.	13.01	13.01	13.01	13.01	Selects SMAW equipment and consumables	12.01
12.02 Sets up SMAW equipment.	13.02	13.02	13.02	13.02	Sets up SMAW equipment	12.02
12.03 Sets operating parameters for SMAW.	13.03	13.03	13.03	13.03	Sets operating parameters for SMAW	12.03
12.04 Performs weld with SMAW equipment.	13.04	13.04	13.04	13.04	Performs weld using SMAW equipment	12.04
<b>Task 13</b> <b>Welds using flux cored arc welding (FCAW), metal cored arc welding (MCAW) and gas metal arc welding (GMAW) processes.</b>			<b>Task 14</b>	<b>Task 14</b>	<b>Welds using flux cored arc welding (FCAW), metal cored arc welding (MCAW) and gas metal arc welding (GMAW) processes</b>	<b>Task 13</b>
13.01 Selects FCAW, MCAW and GMAW gas, equipment and consumables.	14.01	14.01	14.01	14.01	Selects FCAW, MCAW and GMAW gas, equipment and consumables	13.01
13.02 Sets up FCAW, MCAW and GMAW equipment.	14.02	14.02	14.02	14.02	Sets up FCAW, MCAW and GMAW equipment	13.02
13.03 Sets operating parameters for FCAW, MCAW and GMAW.	14.03	14.03	14.03	14.03	Sets operating parameters for FCAW, MCAW and GMAW	13.03
13.04 Performs weld using FCAW, MCAW and GMAW equipment.	14.04	14.04	14.04	14.04	Performs weld using FCAW, MCAW and GMAW equipment	13.04
<b>Task 14</b> <b>Welds using gas tungsten arc welding (GTAW) process.</b>			<b>Task 15</b>	<b>Task 15</b>	<b>Welds using gas tungsten arc welding (GTAW) process</b>	<b>Task 14</b>
14.01 Selects GTAW gas, equipment and consumables.	15.01	15.01	15.01	15.01	Selects GTAW gas, equipment and consumables	14.01
14.02 Sets up GTAW equipment.	15.02	15.02	15.02	15.02	Sets up GTAW equipment	14.02
14.03 Sets operating parameters for GTAW.	15.03	15.03	15.03	15.03	Sets operating parameters for GTAW	14.03
14.04 Performs weld using GTAW equipment.	15.04	15.04	15.04	15.04	Performs weld using GTAW equipment	14.04
<b>Task 15</b> <b>Welds using submerged arc welding (SAW) process.</b>			<b>Task 16</b>	<b>Task 16</b>	<b>Welds using submerged arc welding (SAW) process</b>	<b>Task 15</b>
15.01 Selects SAW equipment and consumables.	16.01	16.01	16.01	16.01	Selects SAW equipment and consumables	15.01
15.02 Sets up SAW equipment.	16.02	16.02	16.02	16.02	Sets up SAW equipment	15.02
15.03 Sets operating parameters for SAW.	16.03	16.03	16.03	16.03	Sets operating parameters for SAW	15.03
15.04 Performs weld using SAW equipment.	16.04	16.04	16.04	16.04	Performs weld using SAW equipment	15.04
					<b>Task 17</b> <b>Welds using oxy-acetylene welding process</b>	
					17.01 Selects oxy-acetylene equipment and consumables	
					17.02 Sets operating parameters for oxy-acetylene process	
					17.03 Operates oxy-acetylene equipment	
					17.04 Performs weld using oxy-acetylene equipment	
					<b>Task 18</b> <b>Welds using robotic equipment</b>	
					18.01 Selects robotic equipment and consumables	
					18.02 Sets up robotic equipment	
					18.03 Sets operating parameters for robotic equipment	
					18.04 Performs weld using robotic equipment	