



## Inspection - Confined Space Checklist

### Confine Space\_Welding In A Confined Space - Welding In A Confined Space

Item #	Prompt	Responses	Comments
1	Gas cylinders and electric welding power sources are located outside the confined space and all cables entering the area are properly insulated?	( ) Yes ( ) No ( ) N/A	
2	Welding torches are lit outside the confined space?	( ) Yes ( ) No ( ) N/A	
3	Low voltage welding machine used. Voltage reduction devices are fitted to any electric welding machine?	( ) Yes ( ) No ( ) N/A	
4	Confined spaces are tested for an explosive atmosphere each time before taking a lighted torch into the space or commencing welding task?	( ) Yes ( ) No ( ) N/A	
5	Confined spaces are continuously ventilated during welding to ensure fumes and gases do not exceed safe exposure limits work?	( ) Yes ( ) No ( ) N/A	
6	Internal combustion engines are not operating in the vicinity of a confined space?	( ) Yes ( ) No ( ) N/A	
7	Flashback arrestors are fitted at the blow pipe and to the oxygen and fuel gas regulators?	( ) Yes ( ) No ( ) N/A	
8	When not in use, all torches and other gas or oxygen supplied equipment are shut off and removed from the space?	( ) Yes ( ) No ( ) N/A	
9	Welders using electric welding are insulated from the workpiece and grounded by dry insulation?	( ) Yes ( ) No ( ) N/A	
10	Atmospheres in confined spaces is continuously monitored with a gas meter during welding to ensure fumes and gases do not exceed safe exposure limits?	( ) Yes ( ) No ( ) N/A	
11	All welding / cutting hoses and electrical leads are suspended above the ground of the confined space to prevent damage from falling objects?	( ) Yes ( ) No ( ) N/A	
12	Supervisor check work areas are well ventilated to prevent accumulation of flammable vapours in the space.	( ) Yes ( ) No ( ) N/A	
13	Operator/Maintainer ventilate work areas to prevent accumulation of flammable vapours in the space?	( ) Yes ( ) No ( ) N/A	
14	Operator/Maintainer check electrical welding equipment including power switches, terminals, connections, cables and insulation are not damaged?	( ) Yes ( ) No ( ) N/A	
15	Operator/Maintainer check gas welding equipment cylinder fittings, hoses and connections are not damaged or in poor condition prior to use?	( ) Yes ( ) No ( ) N/A	
16	Operator/Maintainer check gas welding equipment cylinder fittings, hoses and connections are not damaged or in poor condition prior to use.?	( ) Yes ( ) No ( ) N/A	
17	Operator/Maintainer ensure flashback arrestors are fitted at the blow pipe and to the oxygen and fuel gas regulators?	( ) Yes ( ) No ( ) N/A	
18	Operator/Maintainer drain and purge equipment, such as gas hoses, and shut the gas off at the cylinder valve immediately after use?	( ) Yes ( ) No ( ) N/A	

Item #	Prompt	Responses	Comments
19	Operator/Maintainer use non-conducting material while carrying out electric welding?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
20	Operator/Maintainer continuously monitor the confined space atmosphere with a gas meter during welding	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
21	Operator/Maintainer continuously ventilate during welding to ensure fumes and gases do not exceed safe exposure limits or 10% of LEL?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
22	Operator/Maintainer light welding torches outside the confined space?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Operator/Maintainer test the confined space for an explosive atmosphere each time before taking a lighted torch into the confined space?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
24	Sentry has available and wears arc-flash eye protection when arc-flash is visible from their location?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
25	Operator/Maintainer keep firefighting equipment near welding area?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Item #	Prompt	Responses	Comments
Item #	Explanation		
1	Gas cylinders and electric welding power sources are located outside the confined space and all the area are properly insulated and all gas hoses are leak free.		
2	Welding torches are lit outside the confined space.		
3	Low voltage welding machine used. Voltage reduction devices are fitted to any electric welding machine device automatically limits the voltage to less than 25 volts and only applies the full Open Circuit Voltage when the electrode is struck.		
4	Confined spaces are tested for an explosive atmosphere each time before taking a lighted torch into the confined space commencing welding task.		
5	Confined spaces are continuously ventilated during welding to ensure fumes and gases do not exceed safe exposure limits work and to prevent accumulation of flammable vapours in the work area. A vent is set up to remove air from the confined space with a suction point located close to, and above the welding area to remove fumes.		
6	Internal combustion engines are not operating in the vicinity of a confined space.		
7	Flashback arrestors are fitted at the blow pipe and to the oxygen and fuel gas regulators. For long lengths of hose, arresters are fitted on both the torch and the regulator.		
8	When not in use, all torches and other gas or oxygen supplied equipment are shut off and removed from the confined space. Fuel gas and oxygen supply are shut-off outside the space when the welder leaves the work area for any reason.		
9	Welders using electric welding are insulated from the workpiece and grounded by dry insulation. Where practicable they stand, lay or sit on non-conducting material while carrying out welding.		
10	The atmospheres in confined spaces is continuously monitored with a gas meter during welding to ensure fumes and gases do not exceed safe exposure limits or 10% of lower explosive limit (LEL).		
11	All welding / cutting hoses and electrical leads are suspended above the ground of the confined space to prevent damage from falling objects.		
12	Check work areas are well ventilated to prevent accumulation of flammable vapours in the space.		
13	Ventilate work areas to prevent accumulation of flammable vapours in the space.		
14	Check electrical welding equipment including power switches, terminals, connections, cables and hoses are not damaged or in poor condition prior to use. Don't use welding equipment with damaged insulation, welding cables, plugs, clamps or torch / electrode holder.		
15	Operator/Maintainer check gas welding equipment cylinder fittings, hoses and connections are not in poor condition prior to use.		
16	Check gas welding equipment cylinder fittings, hoses and connections are not damaged or in poor condition prior to use.		
17	Operator/Maintainer ensure flashback arrestors are fitted at the blow pipe and to the oxygen and fuel gas regulators. For long lengths of hose, fit arresters on both the torch and the regulator.		
18	Drain and purge equipment, such as gas hoses, and shut the gas off at the cylinder valve immediately before use.		
19	Use non-conducting material while carrying out electric welding to insulate from the metal of the equipment. Ensuring no direct contact with wet or conductive surface. Avoid any physical contact with surrounding metalwork whilst welding. Use a wooden pallet or rubber floor mat if available enough to offer protection if required to kneel or lie down to complete the task.		
20	Continuously monitor the confined space atmosphere with a gas meter during welding to ensure fumes and gases do not exceed safe exposure limits or 10% of LEL.		
21	Continuously ventilate during welding to ensure fumes and gases do not exceed safe exposure limits or 10% of LEL. If welding ventilation fan is set up to remove air from confined space the suction point must be set up to and above welding to remove fumes. Exhaust must be directed away from personnel and where possible recirculated into the space.		
22	Light welding torches outside the confined space.		
23	Test the confined space for an explosive atmosphere each time before taking a lighted torch into the confined space or striking an arc.		
24	Sentry has available and wears arc-flash eye protection when arc-flash is visible from their location.		
25	Keep firefighting equipment near welding area.		