



Risk Assessment

IMS Form048
Issue 01 Dated Oct 2020

Operation / Task:	GAS (Inc LPG)	Name of Assessor:	Rhys Milton
Reference:	RA036	Date of Assessment:	02.01.2024
Persons at Risk:	ASW Employees/ Other Contractors/ Members of the Public	Reviewed by	R. Milton
Location:	ASW Health and Safety Assessment 2024	Review date	31.12.2024

Ref	Activity	Hazard	Risk	Pre-Control Risk Rating			Control Measures	Post-Control Risk Rating			Comment
				L	S	LxS		L	S	LxS	
1	Working with Gas	Fire	Extremely flammable Serious or fatal burn injuries	4	5	20	Ensure that all gas is isolated at source Carry out a separate fire prevention risk assessment. LPG storage arrangements shall be detailed in "Site Fire Plan" (MS12). Liquefied petroleum gas (LPG) cylinders shall be stored in open air under lock and key in compound or cage, at least 4 m from any building or other structure or sources of ignition. Signs will be displayed indicating presence of LPG and Prohibiting Smoking, sources of ignition and use of mobile phones. LPG cylinders must not be stored in buildings, containers, beneath overhead Power cables or within 3 m of excavations, drains or cellars. LPG cylinders will always be stored with valves uppermost, segregating used from unused and not in proximity with oxygen cylinders. After use, all cylinders will be returned to the store. Changing of cylinders will always take place in the open air. LPG cylinders will not be used in confined spaces, mess huts, stores etc. Ensure adequate ventilation. Do not smoke while handling product. Hoses between LPG cylinder and any appliance will be inspected before use and conform to BS3212. When in use, cylinders must be at least 1 m from heat source, and 3 m from any bitumen or lead boiler. Any appliance will be inspected before use to check for leaks. Flames or heat from portable tools or appliances must not be permitted to play on LPG cylinders. When work use is completed, cylinder valves should be turned off. Torches/equipment must not be left burning unattended. If there is a suspected leak of LPG, open all doors and windows, leave area. Do not operate electrical switches. In the event of a fire, person's lives must not be endangered by attempts to fight the fire. Evacuate the area and call the fire brigade (they must be informed of the presence of LPG cylinders). When being transported cylinders must be kept upright and secured. Vehicles must display necessary warning notices and carry a Tremcard. Vehicles will carry a dry powder extinguisher and the driver shall be trained in emergency procedures. Carry out a separate COSHH risk assessment to identify occupational health issues. Protective gloves should always be worn when handling.	1	5	5	



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				L	S	LxS		L	S	LxS	
		Explosion	Liquified gas under pressure Loss of life or limb. Serious or fatal burns	4	5	20		1	4	5	
		Asphyxiation	Loss of consciousness death	4	4	16		1	4	5	
		Inhalation	May contain small concentrations of 1,3 butadiene, which may cause cancer by inhalation.	3	3	9		1	3		
		Cold "Burns".	Dermatological damage from contact with liquid.	4	5	20		1	5		



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				L	S	LxS		L	S	LxS	
2	2. Additional Gas Works	- Carbon monoxide poisoning - contaminated pipe work - flammable substances - Burns to hands and exposed limbs - Gas explosions - Access egress	- Blackout /unconscious and poisoning - infectious diseases burns - fire - Hot surfaces - Explosions - slips and trips	3	3	9	- Installation and annual maintenance by Gas safe approved person - Localized isolating valve provided - Gas regulator provided - Adequate fire precautions - Training of staff regarding hazards and controls - A controlled route is to be planned ensuring only personnel working on task use the working area - Information on activity conducted to all site personnel - Ensuring only trained skilled personnel are employed working on task - Information on activity conducted to all site personnel Supervisor on site to adopt safety checks - Hot permit to work process to be utilize where necessary.				



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				L	S	LxS		L	S	LxS	
3	The use of Gas Heaters	- Carbon monoxide poisoning - contaminated pipe work - flammable substances - Burns to hands and exposed limbs - Gas explosions - Access egress	- Blackout /unconscious and poisoning - fire - Hot surfaces - Explosions - slips and trips	3	3	9	- Installation and annual maintenance by Gas safe approved person - Localized isolating valve provided - Gas regulator provided - Adequate fire precautions - Training of staff regarding hazards and controls - A controlled route is to be planned to ensure only personnel working on task use the working area - Information on activity conducted to all site personnel - Ensuring only trained skilled personnel are employed working on task - Information on activity conducted to all site personnel Supervisor on site to adopt safety checks	2	2	4	

Likelihood	Severity	Risk factor (Likelihood x Severity)	
1 = Highly unlikely	1 = Insignificant	High Risk = 15-25	Unacceptable Risk. If Post Control risk, work must not commence.
2 = Unlikely	2 = Injury (first aid, no lost time)	Medium Risk = 8-12	If Post Control risk, high level of discipline required & monitoring to consider further controls where possible
3 = Possible	3 = Lost time injury	Low Risk = 1-6	Acceptable Risk assuming all controls in place effectively and workforce aware
4 = Probable	4 = Major injury / disabling condition		
5 = Inevitable	5 = Fatality		

I have read and understand the requirements of this risk assessment.		
Name	Signature	Date



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