

Risk Assessment

RA091 - Fire Risk Assessment - Gas Cylinders & Welding Equipment



ABI Equipment Ltd	Creation Date: 08/10/21
Fire Risk Assessment - Gas Cylinders & Welding Equipment	

Main Hazards are:	
Gas Cylinders on Forklift Trucks.	Welding equipment in rear workshop.
Gas Cylinders used on forklift trucks but stored in the cage outside of the building.	Other gas cylinders stored in the building.
Gas cylinders in vans	
Persons / Property affected	
All Employees	General Public
Subcontractors	Visitors

Assessment of Risk:	Severity	4	X	Likelihood	3	= Risk	12
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Control Measures already in Place	PPE Required
1. This risk assessment should be read in conjunction with the Fire Risk Assessment RA090	Safety helmets <input type="checkbox"/>
2. No smoking policy throughout the site. This includes all forms of smoking including e-cigarettes.	Hi-Vis Jackets <input type="checkbox"/>
3. Only cylinders actually in use should be stored in the building.	Safety footwear <input checked="" type="checkbox"/>
4. All other cylinders should be stored in a cage outside the building.	Eye protection <input type="checkbox"/>
5. Cage constructed outside the building to house both used and unused cylinders.	Dust masks <input type="checkbox"/>
6. Gas welding equipment to be positioned well away from any electrical equipment, hot surfaces, open flames and sources of ignition preferably in a specifically designated area.	Ear plugs <input type="checkbox"/>
7. Forklift trucks to be turned off when not in use.	Earmuffs <input type="checkbox"/>
8. Forklift trucks should be parked away from sources of heat and sources of ignition.	Gloves <input type="checkbox"/>
9. Only employees instructed in the safe handling and use of gases should use the welding equipment.	Protective overalls <input checked="" type="checkbox"/>
10. No Gas Cylinders to be stored or transported in vans.	Gauntlets <input type="checkbox"/>
	Harnesses <input type="checkbox"/>
	Breathing apparatus <input type="checkbox"/>
	Face masks <input type="checkbox"/>

Assessment of Risk:	Severity	4	X	Likelihood	2	= Risk	8
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Additional Controls required	PPE/Equipment
Monthly walk round the workshop to ensure gas cylinders are being used and stored correctly.	All personnel MUST wear the appropriate level of PPE for the activity they are involved with or area they are in
The employee must be adequately trained and competent to work with gas cylinders and welding equipment.	
Newly trained staff should be supervised until a suitable level of competency has been achieved.	

Assessment of Risk:	Severity	4	X	Likelihood	1	= Risk	4
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Approval and Review

Prepared by:	Cathy Sheehan	08/10/2021
Updated by	Ash Soliman	04/10/2024
Review by:	Ash Soliman	04/10/2024

RISK RATING = L x S			Hazard Severity (S)				
			1	2	3	4	5
			Negligible	Slight	Moderate	High	Very High
Likelihood (L)	1	Very Unlikely	LOW	LOW	LOW	LOW	LOW
	2	Unlikely	LOW	LOW	LOW	MEDIUM	MEDIUM
	3	Possible	LOW	LOW	MEDIUM	HIGH	HIGH
	4	Likely	LOW	MEDIUM	HIGH	HIGH	HIGH
	5	Very Likely	LOW	MEDIUM	HIGH	HIGH	HIGH

Likelihood

1. Very Unlikely	A freak combination of factors would be required for an accident/incident to occur
2. Unlikely	A rare combination of factors would be required for an accident/incident to occur
3. Possible	Could happen when accidental factors are present but otherwise unlikely
4. Likely	Not certain to happen but an additional factor may result in an accident/incident
5. Very Likely	Almost inevitable that an accident/incident would occur

Hazard Severity

1. Negligible	Negligible injury, no absence from work
2. Slight	Minor injury requiring first aid
3. Moderate	Injury leading to a lost time accident
4. High	Involving a single person with a serious injury / death
5. Very High	Multiple persons with serious injury / death

Outcomes

LOW	Score (1-6) May be acceptable. Annual Review to see if risks can be reduced further
MEDIUM	Score (8-10) Identify controls must be identified or specific method statement required
HIGH	Score (12-25) Task must not proceed. Senior Management to consider if the risks can be reduced by purchase of additional training, additional equipment, additional staff, additional signage, safe system of work, permit to work or radical changes in method.

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