Risk Assessment RA014 – Welding Operations



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ABI Equipment Ltd			on Da	ate: 28/09/	2012				
Welding Operations									
Main Hazards are:									
Fire and explosion from the ignition of gas			Ignition of other flammable materials whilst welding						
cylinders.			operations are under way.						
Prolonged exposure to heat.		Exposure to fumes.							
Metal spatter.		Exposure to noise.							
Hot work pieces.									
Persons / Property affected		l.							
All Employees		Genera	al Pul	blic					
Company Visitors									
		ı							
Assessment of Risk:	Severity	4	X	Likelihood		2	= Risk	8	
Control Measures already in P	Place					PPE Required			
1. Where possible all welding		ide the v	veldi	ng bay with		Safety helmets			
doors shut.	,			0 ,		Hi-Vis Jackets			
2. Only trained personnel are	allowed to carry out v	welding	oper	ations.					
3. Where possible all flamma							footwear		
welding operations area.							otection		\boxtimes
4. Fire resisting sheets should	be used to protect th	e surro	ındin	gs from flai	me	Dust n	nasks		
and spatter.	,			0		Ear plu	ugs		\boxtimes
5. Personal protective equipr	ment (PPE) should be v	vorn.				Earmu	ıffs		
6. The welding bay extraction			o pro	vide genera	ıl	Gloves	S		$\overline{\boxtimes}$
ventilation and be position			•	J		Gloves S Protective overalls S Gauntlets			
7. The personal respirator sh		dividual	carr	ing out the		Gaunt		15	
welding.	,		•	, 5					
8. Reduced time exposure sh	ould be considered.					Harne			
9. Effective fume control equ		vided.				Breathing apparatus			
10. The workplace must be checked for a minimum of 30 n				s after	Face masks				
completion of the work to				Weldir	ng Mask				
remaining ignition sources.									
11. Correct PPE to be used and all work to be carried out by a Permit which									
meets the requirements of the MALA insurers.									
12. Hot permit to work to be o	ompleted.								
Assessment of Risk:	Severity	4	Χ	Likelihood		1	= Risk	4	
Additional Controls required					PPE/	Equipr	ment		
All personnel involved in the w	ork should be trained	to perfo	rm t	heir			nel MUST w	ear the	:
·				appropriate level of PPE for the					
else who could be affected.	,			•	activity they are involved with or				
				area they are in.					
The employee must be adequately trained and competent to operate the tools/equipment they are to use.									
	Newly trained staff should be supervised until a suitable level of								
competency has been achieved.									
competency has been achieved.									

Assessment of Risk:

4

Χ

Likelihood

Severity

= Risk

4

1

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Approval and Review						
Prepared by:	Cathy Sheehan	28/09/2012				
Updated by	Ash Soliman	16/09/2024				
Review by:	Ash Soliman	16/09/2024				

	RISK	RATING	Hazard Severity (S)				
= L x S		1	2	3	4	5	
		Negligible	Slight	Moderate	High	Very High	
⊑	1	Very Unlikely	LOW	LOW	LOW	LOW	LOW
ikelih	2	Unlikely	LOW	LOW	LOW	MEDIUM	MEDIUM
pood	3	Possible	LOW	LOW	MEDIUM	HIGH	HIGH
Ē	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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Prepared by	Cathy Sheehan
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