

# Risk Assessment

## RA011 – Use of Abrasive Wheels



ABI Equipment Ltd	Creation Date: 28/09/12
Use of Abrasive Wheels	

Main Hazards are:	
Burst wheel/disc	Flying particles during cutting or grinding operations
Entanglement in moving parts	Flying particles of dust & sparks
Contact with wheel/disc	Noise and Vibration
Flying particles from fractured wheel/disc	Inhalation of Dust particles
Persons / Property affected	
All Employees	General Public

<b>Assessment of Risk:</b>	Severity	4	X	Likelihood	3	= Risk	12
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Control Measures already in Place	PPE Required
1. Abrasive wheels checklist to be completed before the use of each item.	Safety helmets <input type="checkbox"/>
2. All tools to me labelled with Vibration information.	Hi-Vis Jackets <input type="checkbox"/>
3. All employees to be issued with a HAVS logbook.	Safety footwear <input checked="" type="checkbox"/>
4. Adequate numbers of operatives should be appointed and trained to change abrasive wheels and discs.	Eye protection <input checked="" type="checkbox"/>
5. Each appointee should carry proof of authorisation.	Dust masks <input checked="" type="checkbox"/>
6. Correct type of wheels/discs to suit the type of work and spindle speeds, etc. should be available.	Ear plugs <input type="checkbox"/>
7. Wherever practicable, abrasive wheels should be fitted with working guards designed to contain every part of the wheel if it fractures.	Earmuffs <input checked="" type="checkbox"/>
8. Good ventilation should be in place if dust is a hazard.	Gloves <input checked="" type="checkbox"/>
9. Abrasive wheels should be stored in a dry area that is not susceptible to extreme temperatures.	Protective overalls <input checked="" type="checkbox"/>
10. Proper storage facilities for wheels and discs should be available.	Gauntlets <input type="checkbox"/>
11. All discs should be inspected for damage before being fitted.	Harnesses <input type="checkbox"/>
12. All cutters and grinders should be regularly maintained.	Breathing apparatus <input type="checkbox"/>
13. No loose clothing should be worn.	Face masks <input checked="" type="checkbox"/>
14. Regular vibration audit to be undertaken every year.	

<b>Assessment of Risk:</b>	Severity	3	X	Likelihood	2	= Risk	6
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Additional Controls required	PPE/Equipment
All personnel involved in the work should be trained to perform their duties with due regard to the health and safety of themselves and anyone else who could be affected.	<b>All personnel MUST wear the appropriate level of PPE for the activity they are involved with or area they are in.</b>
The employee must be adequately trained and competent to change and use abrasive wheels.	
Newly trained staff should be supervised until a suitable level of competency has been achieved.	

<b>Assessment of Risk:</b>	Severity	3	X	Likelihood	2	= Risk	6
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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 = 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 <b>must not</b> 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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