Risk Assessment RA061 – Noise & Vibration at Work – Use of a Polisher



ABI Equipment Ltd	Creation Date: 13/01/22
Noise & Vibration at Work – Use of a Polisher	

Main Hazards are:	
Permanent noise induced hearing loss caused from	Temporary noise induced hearing loss caused from noise
noise produced from workshop tools	produced from workshop tools
Tinnitus caused from noise produced from workshop tools	Extreme tiredness due to tinnitus induced sleep problems
Accidents caused when an employee cannot hear	Accidents as the employee is unable to hear moving
safety instructions due to excessive noise	equipment or fire alarms.
Accidents caused when noise is a constant	Tools causing injury when parts are ejected due to the
distraction	vibration
Carpel Tunnel Syndrome (CTS)	Hand-arm vibration (HAV)
Persons / Property affected	
All Employees working outside the welding bay	Visitors to the building
shutter door	
All Employees moving around the workshop	Neighbours in adjoining buildings

Summary of Noise Assessment where measurement is over 80dB				
Location Measurement (15		Distance from door		
CML Inspection May 2023	From 91 dB(A)			
Summary of Vibration Assessment if the HAVS ELV is above 5.0m/s ²				
Vibration figure m/s2	From 7.41 m/s ²			
Time to reach EAV	55 mins			
Time to reach ELV	3 hrs 39 mins			

Assessment of Risk:	Severity	3	Х	Likelihood	4	= Risk	12

Со	ntrol Measures already in Place	PPE Required	
1.	This risk assessment should be read in conjunction with RA044 General Noise at Work and RA043 Vibration at work	Safety helmets Hi-Vis Jackets	
2. 3.	Before use the employee should look up the EAV (Exposure Action Value) and the ELV (Exposure Limit Value) of the polisher being used. If there is a choice the Lowest vibration/decibel level polisher should be	Safety footwear Eye protection Dust masks	\mathbb{X}
4.	used wherever possible The polisher should not be used for more than 20 minutes at a time. Tasks should be alternated to reduce exposure to noise & vibration	Ear plugs Earmuffs	\boxtimes
5.	The polisher should preferably be used in the welding bay where possible. If the tool is used outside the welding bay, then screens and warning signed should be used to protect other staff from the noise	Gloves Protective overalls Gauntlets	\boxtimes
6.	Consideration should be given as to whether a more suitable tool with lower noise and vibration levels can be used instead	Harnesses	
7.	The polisher must be suitable for the job in hand	Breathing apparatus	\boxtimes
8.	The polisher must be inspected before use for any signs of damage or wear and tear. If damaged it should not be used	Face Masks	\bowtie
9.	Employees to record their exposure to noise and vibration on a task-by-task basis in the books provided.		
10.	Gripping hard or applying force with the polisher should be avoided		

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11.	All hearing protection PPE must be suitable to the task in hand and should	
	be inspected for damage and wear before use. If damaged the hearing	
	protection should be disposed if and replaced.	
12.	All equipment should be regularly serviced and maintained, and the	
	maintenance should be planned in advance.	
13.	Ensure the polisher must have been PAT tested in the last 12 months	
14.	The polishing wheel should be in good condition	

Assessment of Risk:	Severity	3	Х	Likelihood	3	= Risk	9
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Additional Controls required	PPE/Equipment
Employees to be trained to understand Vibration and noise at work	
Employees trained to notice the first signs of HAV and hearing impairment.	
Employees trained to notice the first signs of HAV	
Tingling & numbness in fingers	
 Not being able to feel things with fingers 	
Loss of strength in hands	
• Tips of fingers going white then red with pain when cold and wet	
 Unable to hear what other employees are saying 	
 People reporting TV and radio turned up too loud 	
Ringing in the ears or tinnitus	
The polisher should be assessed every 12-18 months for vibration and	
noise.	
The employee must be adequately trained and competent to use the	
polisher	
Newly trained staff should be supervised until a suitable level of	
competency has been achieved	

Assessment of Risk:	Severity	3	Х	Likelihood	2	= Risk	6

Approval and Review						
Prepared by:	Cathy Sheehan	13/01/2022				
Updated by	Ash Soliman	04/10/2024				
Review by:	Ash Soliman	04/10/2024				

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

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Likelihood Very Unlikely A freak combination of factors would be required for an accident/incident to occur 1. Unlikely A rare combination of factors would be required for an accident/incident to occur 2. 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 May be acceptable. Annual Review to see if risks can be reduced further LOW Score (1-6) 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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