Risk Assessment RA053 – Noise & Vibration at Work – Use of Reciprocal Saw



ABI Equipment Ltd	Creation Date: 18/01/2021
Noise & Vibration at Work - Use of Reciprocal Saw	

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						
CML Inspection May 2023						
Summary of Vibration Assessment if the HAVS ELV is above 5.0m/s ²						
Vibration figure m/s2	From 2.42 m/s ²	To 13.03 m/s ²				
Time to reach EAV	From 18 mins	To 8 hrs 32 mins				
Time to reach ELV	From 1 hr 11 mins	To > 24 hrs				

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 reciprocal saw being used. If there is a choice the Lowest vibration/decibel level reciprocal saw should	Safety footwear Eye protection Dust masks	
4.	be used wherever possible The reciprocal saw should not be used for more than 10 minutes at a time. Tasks should be alternated to reduce exposure to noise & vibration	Ear plugs Earmuffs	\boxtimes
5.	The reciprocal saw 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 reciprocal saw must be suitable for the job in hand	Breathing apparatus	\square
8.	The reciprocal saw must be inspected before use for any signs of damage or wear and tear. If damaged it should not be used	Face Masks	
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 reciprocal saw 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 reciprocal saw must have been PAT tested in the last 12 months

14. The blades should be in good condition

Assessment of Risk:	Severity	3	Х	Likelihood	3	= Risk	9

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 reciprocal saw should be assessed every 12-18 months for vibration	
and noise.	
The employee must be adequately trained and competent to use the	
reciprocal saw	
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					
	= L x S		1	2 3		4	5
		Negligible	Slight	Moderate	High	Very High	
Ē	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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Like	elihood						
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					
Haz	ard 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					
Out	tcomes						
LOV	N	Score (1-6) May be acceptable. Annual Review to see if risks can be reduced further					
ME	DIUM	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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