Risk Assessment RA062 – Noise & Vibration at work – Use of a Jigsaw



ABI Equipment Ltd	Creation Date: 13/01/2022
Noise & Vibration at work – Use of a Jigsaw	

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 safety instructions due to excessive noise	Accidents as the employee is unable to hear moving equipment or fire alarms.
Accidents caused when noise is a constant distraction	Tools causing injury when parts are ejected due to the 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 (15m)	Distance from door			
CML Inspection May 2023	From 89 dB(A)	To 100 dB(A)			
Summary of Vibration Assessment if the HAVS ELV is above 5.0m/s ²					
Vibration figure m/s2	From 2.91 m/s ²	To 5.81 m/s ²			
Time to reach EAV	From 1 hr 29 mins	To 5 hrs 54 mins			
Time to reach ELV	From 5 hrs 55 mins	To 23 hrs 37 mins			

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

Co	ntrol Measures already in Place	PPE Required	
1.	This risk assessment should be read in conjunction with RA044 General	Safety helmets	
	Noise at Work and RA043 Vibration at work	Hi-Vis Jackets	
2.	Before use the employee should look up the EAV (Exposure Action Value)	Safety footwear	
	and the ELV (Exposure Limit Value) of the Jigsaw being used.	Eye protection	
3.	If there is a choice the Lowest vibration/decibel level Jigsaw should be used	, ,	
	wherever possible	Dust masks	
4.	The Jigsaw should not be used for more than 20 minutes at a time. Tasks	Ear plugs	
	should be alternated to reduce exposure to noise & vibration	Earmuffs	\boxtimes
5.	The Jigsaw should preferably be used in the welding bay where possible. If	Gloves	\boxtimes
	the tool is used outside the welding bay, then screens and warning signed	Protective overalls	\boxtimes
	should be used to protect other staff from the noise	Gauntlets	
6.	Consideration should be given as to whether a more suitable tool with lower	Harnesses	
	noise and vibration levels can be used instead		
7.	The Jigsaw must be suitable for the job in hand	Breathing apparatus	
8.	The Jigsaw must be inspected before use for any signs of damage or wear	Face Masks	\bowtie
	and tear. If damaged it should not be used		
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 Jigsaw 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 Jigsaw must have been PAT tested in the last 12 months	
14.	The jigsaw blades should be in good condition.	

Assessment of Risk:	Severity	3	Χ	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 Jigsaw should be assessed every 12-18 months for vibration and noise.	
The employee must be adequately trained and competent to use the	
Jigsaw	
Newly trained staff should be supervised until a suitable level of	
competency has been achieved	

Assessment of Risk:	Severity	3	Χ	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	2 3		5				
	Negligible Slight Mode		Moderate	High	Very High					
₽	1	Very Unlikely	LOW	LOW	LOW	LOW	LOW			
kelih	2	Unlikely	LOW	LOW	LOW	MEDIUM	MEDIUM			
ood	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	lihood						
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	ht 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	comes						
LOV	V	Score (1-6) May be acceptable. Annual Review to see if risks can be reduced further					
MEI	DIUM	Score (8-10) Identify controls must be identified or specific method statement required					
HIG	Н	Score (12-25) Task <u>must not</u> 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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