Risk Assessment A063 – Noise & Vibration at Work – Use of a Hammer Impact Drill



ABI Equipment Ltd	Creation Date: 13/01/2022
Noise & Vibration at Work – Use of a Hammer	
Impact Drill	

Main Hazarda ava	
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	Extreme tiredness due to tinnitus induced sleep problems
workshop tools	
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 (15m)	Distance from door			
CML Inspection May 2023	To 98 dB(A)				
Summary of Vibration Assessment if the HAVS ELV is above 5.0m/s ²					
Vibration figure m/s2	From 5.72 m/s ²	From 8.21 m/s ²			
Time to reach EAV	From 45 mins	To 1 hr 32 mins			
Time to reach ELV	From 2 hrs 58 mins	To 6 hrs 7 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	$\overline{\Box}$
2.	Before use the employee should look up the EAV (Exposure Action Value)	Safety footwear	\square
	and the ELV (Exposure Limit Value) of the Hammer Impact Drill being used.	Eye protection	\square
3.	If there is a choice the Lowest vibration/decibel level Hammer Impact Drill	Dust masks	
	should be used wherever possible		
4.	The Hammer Impact Drill should not be used for more than 20 minutes at a	Ear plugs	\boxtimes
	time. Tasks should be alternated to reduce exposure to noise & vibration	Earmuffs	\boxtimes
5.	The Hammer Impact Drill should preferably be used in the welding bay	Gloves	\boxtimes
	where possible. If the tool is used outside the welding bay, then screens and	Protective overalls	\bowtie
	warning signed should be used to protect other staff from the noise	Gauntlets	$\overline{\boxtimes}$
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 Hammer Impact Drill must be suitable for the job in hand	Breathing apparatus	
8.	The Hammer Impact Drill must be inspected before use for any signs of	Face Masks	\boxtimes
	damage or wear 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 Hammer Impact Drill 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 Hammer Impact Drill must have been PAT tested in the last 12
	months

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 Hammer Impact Drill should be assessed every 12-18 months for	
vibration and noise.	
The employee must be adequately trained and competent to use the	
Hammer Impact Drill	
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 Moderate		High	Very High					
Ē	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	lhood						
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	comes						
LOV	V	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					
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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