

## Close Proximity To Vibration Sources Risk Assessment

Business Name:	ABN:	
Business Address:		
Contact Person:	Phone:	Email:

## THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THIS PROJECT

Under the Work Health and Safety Regulation (WHS Regulation), a person conducting a business or undertaking (PCBU) is required to ensure that a RISK ASSESSMENT is prepared before the proposed work starts.

Full Name:		
Signature:	Title:	Date:

## CLIENT OR PRINCIPAL CONTRACTOR DETAILS

Client:	SCOPE OF WORKS
Project Name:	
Project Address:	
Project Manager:	
Contact Phone:	
Date Risk Assessment supplied to Project Manager:	

RISK MATRIX									
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION	HIERARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE			<b>Elimination</b> Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	<b>Substitution</b> Replace the hazard.	
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE	3H HIGH	Review before work starts.	Isolation Isolate People from the hazard	
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	2M MODERATE	Ensure control measures in place.	<b>Engineering</b> Isolate the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	Monitor and keep records.	<b>Administrative</b> Change	
								<b>PPE</b>	
<b>Risk Rating &amp; Required Action:</b>								<b>Notes on Hierarchy of Controls:</b>	
4A Stop work. The risk is intolerable. Eliminate the hazard or redesign the activity before proceeding. A Safe Work Method Statement (SWMS) or higher-level authorisation is required.								Remember to apply controls in the preferred order shown by the coloured pyramid:	
3H Review and approve additional controls before task starts. Senior supervisor sign-off needed.								1. <b>Eliminate</b>	
2M Ensure all nominated controls are in place and effective. Proceed with caution; monitor conditions.								2. Substitute	
1L Proceed, following standard operating procedures. Monitor and keep records.								3. Isolate	
								4. Engineering	
								5. Administrative	
								6. PPE	
<b>Consequence Scale:</b>								Always document <b>why</b> a lower-order control is accepted if elimination or substitution is not reasonably practicable.	
Consequence	People (injury/illness)		Project / Assets		Compliance / Reputation				
Catastrophic	Fatality or permanent total disability		project shutdown		Significant regulator intervention; criminal prosecution				
Major	Serious injury/illness (hospital > 5 days)		critical delay		Improvement notice; major media coverage				
Moderate	Medical-treatment injury; lost-time > 1 day		moderate delay		Minor breach; adverse client comment				
Minor	First-aid only, no lost time		negligible delay		Isolated non-conformance				
Insignificant	No injury		no schedule impact		Deviation caught and corrected on site				
								<i>aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.</i>	

JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
1. Preparation	Loud noise, Heavy machinery	3H	<ul style="list-style-type: none"> <li>- Provide workers with appropriate hearing protection</li> <li>- Ensure all machinery is well-maintained</li> <li>- Implement administrative controls to limit exposure time</li> <li>- Conduct regular training on machinery operation and safety guidelines</li> <li>- Use signage to demarcate high-risk areas</li> <li>- Install sound barriers where practical</li> <li>- Schedule work to minimize exposure to vibration</li> <li>- Encourage regular breaks for mobile equipment operators</li> <li>- Establish safety zones with restricted access</li> <li>- Monitor noise levels regularly</li> </ul>	2M
2. Site Induction	Unfamiliarity with equipment, Inadequate training	3L	<ul style="list-style-type: none"> <li>- Conduct comprehensive site induction sessions</li> <li>- Provide detailed equipment manuals and operational guides</li> <li>- Promote buddy systems for new employees</li> <li>- Facilitate continuous feedback loops on training adequacy</li> <li>- Encourage questions to clarify any uncertainties</li> <li>- Ensure attendance and graduation from induction</li> <li>- Place visible instructional posters in key locations</li> <li>- Deliver induction materials in multiple languages</li> <li>- Utilise training software for interactive learning</li> <li>- Schedule periodic refresher inductions</li> </ul>	1L
3. Equipment Setup	Incorrect setup, Improper machinery calibration	4A	<ul style="list-style-type: none"> <li>- Ensure only qualified personnel handle equipment setup</li> <li>- Use setup checklists for all machinery</li> <li>- Provide detailed calibration guidelines</li> <li>- Implement a peer-review system for equipment setup</li> <li>- Clear surrounding area of unnecessary personnel during setup</li> <li>- Verify all safety clamps and guards are in place</li> <li>- Schedule regular maintenance and calibration checks</li> <li>- Conduct pre-operational system tests</li> </ul>	2M

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			- Equip setup personnel with necessary toolkits - Utilise anti-vibration mounts where feasible	
4. Regular Operations	Excessive vibration, Operator fatigue	4A	[REDACTED]	2M
5. Maintenance	Unexpected equipment start-up, Improper lockout/tagout procedure	3H	[REDACTED]	2M
6. Emergency Response	Delayed evacuation, Inadequate response protocols	4A	[REDACTED]	1L

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7. Shutdown Procedures	Residual energy release, Faulty shutdown processes	3H		1L
8. Vibration Monitoring	Inaccurate data collection, Faulty hazard detection	4A		2M
9. Training and Awareness	Knowledge gaps, Lack of awareness	3H		1L

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10. Supervision	Failure to enforce safety protocols, Inadequate supervision	4A		2M
11. Equipment Transit	Equipment damage during transit, Improper securing of equipment	3H		2M
12. Vibration Source Identification	Misidentification, Overlooked sources	4A		2M

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13. Personal Protective Equipment (PPE)	Ineffective PPE, Non-compliance	3H		1L
14. Worker Health Monitoring	Unidentified health impacts, Delay health response	3H		1L
15. External Environmental Monitoring	Off-site impact of operations, Community complaints	4A		2M

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			<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	
16. Stakeholder Reviews	Lack of stakeholder engagement, Missed improvement opportunities	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	2M
17. Visual Inspections	Overlooked hazards during inspections, Inadequate inspection frequency	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	1L
18. Feedback Loops	Delayed hazard feedback, Lack of feedback mechanisms	4A	<div></div> <div></div> <div></div>	2M



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19. Incident Investigation	Root cause misidentification, Inadequate investigation training	4A		2M
20. Procedure Review and Update	Outdated procedures, Unaddressed emerging risks	4A		1L

## EMERGENCY RESPONSE – CALL 000 FOR EMERGENCIES

Ensure to have an Emergency Management Plan in place as well as adequate numbers of trained first aid staff with easy access to fully stocked first aid kits, rescue equipment, material safety data sheets, adequate access to emergency communication equipment and fire-fighting equipment suitable for all classes of fire and ignition sources.

## LEGISLATIVE REFERENCES

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES IF ANY STATE THAT ARE NOT APPLICABLE

### Queensland & Australian Capital Territory

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

Legislation QLD: <https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws>

Codes of Practice QLD: <https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice>

Legislation ACT: <https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations>

Codes of Practice ACT: <https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice>

### Victoria

Occupational Health and Safety Act 2004

Occupational Health and Safety Regulations 2017

Legislation VIC: <https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and-regulations>

Codes of Practice VIC: <https://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice>

### New South Wales

Work Health and Safety Act 2011

Work Health and Safety Regulations 2017

Legislation NSW: <https://www.safework.nsw.gov.au/legal-obligations/legislation>

Codes of Practice NSW: <https://www.safework.nsw.gov.au/resource-library/list-codes-of-practice>

### Western Australia

Work Health and Safety Act 2020

Work Health and Safety Regulations 2022

Legislation Western Australia: <https://www.commerce.wa.gov.au/worksafe/legislation>

Codes of Practice WA: <https://www.commerce.wa.gov.au/worksafe/codes-practice>

### Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulations 2011

Legislation NT: <https://worksafe.nt.gov.au/laws-and-compliance/workplace-safety-laws>

Codes of Practice NT: <https://worksafe.nt.gov.au/laws-and-compliance/codes-of-practice>

### Safe Work Australia Links

Law and Regulation (All States): <https://www.safeworkaustralia.gov.au/law-and-regulation>

Model Codes of Practice: <https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice>

### Model Codes of Practice

- Managing noise and preventing hearing loss at work
- Confined spaces
- Labelling of workplace hazardous chemicals
- Managing risks of hazardous chemicals in the workplace
- Welding processes
- First aid in the workplace
- Managing the risk of falls at workplaces
- Hazardous manual tasks
- Managing the risk of falls in housing construction
- Managing electrical risks in the workplace
- Demolition work
- Excavation work
- Work health and safety consultation, cooperation and coordination
- Managing the work environment and facilities
- How to manage work health and safety risks
- Managing risks of plant in the workplace
- Construction work

### South Australia

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (SA)

Legislation for SA: <https://www.safework.sa.gov.au/resources/legislation>

Codes of Practice for SA: <https://www.safework.sa.gov.au/workplaces/codes-of-practice#COPs>

### Tasmania

Work Health and Safety Act 2012

Work Health and Safety (Transitional and Consequential Provisions) Act 2012

Work Health and Safety Regulations 2012

Work Health and Safety (Transitional) Regulations 2012

Legislation for TAS: <https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations>

Codes of Practice for TAS: <https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice>

Details of permits, licenses or access required by regulatory bodies (add or delete as required):

- Permits from local council
- Authorisation to commence work
- Any required documents.