

Rock Drill Risk Assessment

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

THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THE 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			Elimination Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	Substitution 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.	Engineering Isolate the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	Monitor and keep records.	Administrative Change	
								PPE	
Risk Rating & Required Action:								Notes on Hierarchy of Controls:	
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. Eliminate	
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	
Consequence Scale:								Always document why 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	slip, trip and fall, equipment failure	3H	<ul style="list-style-type: none"> - Conduct a safety briefing for all workers - Inspect work area for trip hazards - Ensure all equipment is inspected before use - Verify that all team members have appropriate PPE - Designate clear walkways and working zones - Ensure adequate lighting is available - Document risks and mitigation strategies in a SWMS (Safe Work Method Statement) - Keep all work areas clear and clutter free - Ensure emergency exits are clearly marked - Review all safety protocols prior to starting work 	2M
2. Site Access	vehicle collision, unauthorised access	4H	<ul style="list-style-type: none"> - Implement a traffic management plan - Designate entry and exit points - Ensure security personnel control access - Install adequate signage on-site - Use personal protective equipment (PPE) for all site visitors - Maintain a log of all personnel and vehicles onsite - Restrict access to authorised personnel only - Provide induction training for all site visitors - Use barriers or warning tapes to restrict access to certain areas - Regularly review access control measures for effectiveness 	2M
3. Transport of Drill Equipment	load shifting, equipment falling	3H	<ul style="list-style-type: none"> - Use appropriate lifting equipment - Secure loads with proper restraints - Train workers on safe loading procedures - Conduct pre-use inspections on vehicles and equipment - Use spotters to guide equipment movement - Limit speed on site to reduce risk of accidents - Use signals or communication devices for effective coordination - Keep a clear path for equipment movement 	2M

Control Measure	3H	4A
Hand injuries, pinch points	<p>1. Use of safety gloves</p> <p>2. Use of safety glasses</p> <p>3. Use of safety harness</p> <p>4. Use of safety barriers</p> <p>5. Use of safety signage</p> <p>6. Use of safety training</p> <p>7. Use of safety equipment</p> <p>8. Use of safety procedures</p> <p>9. Use of safety protocols</p> <p>10. Use of safety standards</p>	<p>1. Use of safety gloves</p> <p>2. Use of safety glasses</p> <p>3. Use of safety harness</p> <p>4. Use of safety barriers</p> <p>5. Use of safety signage</p> <p>6. Use of safety training</p> <p>7. Use of safety equipment</p> <p>8. Use of safety procedures</p> <p>9. Use of safety protocols</p> <p>10. Use of safety standards</p>
Hearing loss, vibration	<p>1. Use of safety gloves</p> <p>2. Use of safety glasses</p> <p>3. Use of safety harness</p> <p>4. Use of safety barriers</p> <p>5. Use of safety signage</p> <p>6. Use of safety training</p> <p>7. Use of safety equipment</p> <p>8. Use of safety procedures</p> <p>9. Use of safety protocols</p> <p>10. Use of safety standards</p>	<p>1. Use of safety gloves</p> <p>2. Use of safety glasses</p> <p>3. Use of safety harness</p> <p>4. Use of safety barriers</p> <p>5. Use of safety signage</p> <p>6. Use of safety training</p> <p>7. Use of safety equipment</p> <p>8. Use of safety procedures</p> <p>9. Use of safety protocols</p> <p>10. Use of safety standards</p>

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7. Equipment Maintenance	entanglement, electric shock	3H		2M
8. Workplace Ergonomics	repetitive strain injuries, musculoskeletal disorders	3H		2M
9. Emergency Response	inadequate emergency procedures, panic	3H		1L

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10. Environmental Management	soil contamination, noise pollution	3H		1L
11. Drill Decommissioning	uncontrolled energy release, falling objects	4A		2M
12. Waste Disposal	chemical exposure, sharp edges	3H		2M

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13. Post-Operation Review	data recording errors, overlooking maintenance issues	2M		1L
14. Regular Training	inadequate training, knowledge gaps	3H		1L
15. Team Communication	miscommunication, lack of coordination	3H		2M

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16. Weather Assessment	lightning strikes, slippery surfaces	3H		2M
17. Public Safety	public access to site, flying debris	4A		2M
18. Incident Reporting	failure to report incidents, incomplete investigations	3H		1L

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19. Contingency Planning	unexpected equipment failure, emergency situations	4A		2M
20. Documentation and Records	loss of documentation, outdated procedures	2M		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.