

Masonry Cutting And Core Drilling Operations 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			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:

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.
3H	Review and approve additional controls before task starts. Senior supervisor sign-off needed.
2M	Ensure all nominated controls are in place and effective. Proceed with caution; monitor conditions.
1L	Proceed, following standard operating procedures. Monitor and keep records.

Consequence Scale:

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

Notes on Hierarchy of Controls:

Remember to apply controls in the preferred order shown by the coloured pyramid:

- Eliminate**
- Substitute
- Isolate
- Engineering
- Administrative
- PPE

Always document **why** a lower-order control is accepted if elimination or substitution is not reasonably practicable.

aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.

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	Manual handling injuries, Incorrect PPE	3H	<ul style="list-style-type: none"> - Conduct safety briefing with all workers. - Ensure all workers are trained in manual handling techniques. - Confirm that PPE is available and suitable for tasks (e.g. gloves, safety goggles). - Check that all workers are wearing the correct PPE before starting. - Review job safety analysis (JSA) with the team. - Have an emergency communication plan in place. - Ensure first aid kits are accessible. - Verify all workers understand the work process. - Assign a supervisor responsible for overseeing the preparation work. - Prepare equipment and check for any defects. 	2M
2. Site Inspection	Uneven surfaces, Environmental hazards	3H	<ul style="list-style-type: none"> - Assess the work site for uneven surfaces and trip hazards. - Clear any debris and obstacles before starting work. - Communicate identified environmental hazards to all workers. - Install signage to warn of potential hazards. - Use barriers to cordon off hazardous areas. - Schedule work to minimize exposure to environmental hazards (e.g., weather conditions). - Ensure safe access pathways are identified and maintained. - Conduct a site walk-through to identify any new hazards. - Use buddy system when moving through hazardous areas. - Review environmental data and forecasts prior to work commencement. 	2M
3. Equipment Setup	Equipment failure, Slips, trips and falls	4A	<ul style="list-style-type: none"> - Conduct a pre-start equipment inspection. - Use appropriate equipment according to manufacturer instructions. - Calibrate machinery as per requirements. - Ensure machinery is on stable ground to prevent toppling. - Guard all moving parts of the machinery. - Clear working area of all trip hazards. - Use drip trays to contain any leaks from machinery. - Implement a maintenance schedule for all equipment. 	2M

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			<ul style="list-style-type: none"> - Conduct regular checks for loose parts or other issues. - Use spotters to guide equipment setup if necessary. - Secure all cables and hoses to prevent tripping. - Train workers on inspection procedures for the equipment. 	
4. Marking Out Area	Inaccurate measurements, Exposure to dust	3H	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	1L
5. Core Drilling Operation	Noise exposure, Silica dust inhalation	4A	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	2M
6. Masonry Cutting	Flying debris, Vibration-related injuries	4A	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	2M

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7. Equipment Shutdown	Unexpected restarts, Residual dust presence	3H		1L
8. Site Clean-Up	Biohazard contact, Injuries from sharp objects	3H		1L
9. Post-Job Review	Safety non-compliance, Inadequate documentation	2M		1L

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			<div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	
10. Workers' Health Monitoring	Health issues due to prolonged exposure, Non-identification of emerging conditions	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	1L
11. Tools and Equipment Maintenance	Unexpected equipment breakdown, Faulty safety mechanisms	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

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12. Emergency Response Planning	Poor communication, Confusion during emergencies	3H	<ul style="list-style-type: none"> Develop and implement a clear emergency response plan. Conduct regular emergency drills and training for all personnel. Establish a reliable communication system for emergencies. Designate specific roles and responsibilities for emergency response. Ensure all personnel are familiar with the location of emergency exits and assembly points. Post emergency contact information in accessible locations. Review and update the emergency response plan annually. Provide clear instructions and signage for emergency procedures. Establish a chain of command for emergency response. Ensure all personnel understand the importance of following emergency procedures. Conduct a post-emergency review to identify areas for improvement. 	1L
13. Worker Induction	Unfamiliarity with site, Lack of hazard awareness	3H	<ul style="list-style-type: none"> Develop a comprehensive induction program for all new workers. Conduct a site tour and orientation for new workers. Provide training on site-specific hazards and safety procedures. Assign experienced workers to mentor new workers. Ensure all workers understand the importance of following safety rules. Provide clear instructions and signage for safety procedures. Conduct a pre-work safety check with all workers. Establish a system for reporting hazards and near misses. Review and update the induction program annually. Ensure all workers are familiar with the location of emergency exits and assembly points. Post emergency contact information in accessible locations. 	1L
14. Work Method Assessment	Unsafe work practices, Incorrect technique use	3H	<ul style="list-style-type: none"> Develop a system for assessing work methods for safety. Conduct regular work method assessments for all tasks. Identify and eliminate unsafe work practices. Provide training on correct work techniques. Assign experienced workers to supervise and guide new workers. Ensure all workers understand the importance of following safety rules. Provide clear instructions and signage for safety procedures. Conduct a pre-work safety check with all workers. Establish a system for reporting hazards and near misses. Review and update the work method assessment system annually. Ensure all workers are familiar with the location of emergency exits and assembly points. Post emergency contact information in accessible locations. 	1L

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15. Stakeholder Communication	Miscommunication, Inconsistency in safety messaging	3H		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.