

\$	Silica Dust Risk Assessmer	nt	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Ema.	
THIS RISK ASSESSI	MENT IS APPROVED BY THE PC	BU ON W PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a pis prepared before the proposed work starts.	person conducting a busine or un	ndertaking PCBL ¹ required to ensu	re that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CL	OR PRI. CIL L. CO. TRACTOR I	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project Iv			



RISK MATRIX LIKELIHOOD INSIGNIFICANT MINOR MODERATE MAJOR CATASTROPHIC HIERARCHY OF CONTROLS SCORE ACTION Elimination ALMOST 3 HIGH 3 HIGH 4 4 ACUTE ACUTE ACUTE **CERTAIN** Remove the hazard. Substitution 4 4 DO NOT Replace the hazard. LIKELY MODERATE HIGH HIGH ACUTE ACUTE ACUTE ROCEED Isolation Isolate People from the hazard 2 3 4 3H Rev before POSSIBLE MODERATE ACUTE ACUTE LOW HIGH HIGH. work Engineering Isolate the l/Acchanich. Ensure control 2 3 2M istrativ UNLIKELY measures in LOW LOW MODERATE HIGH ACU RATE е place. Chang 2 MODERATE 3 HIGH 1L Monitor and RARE LOW LOW LOW keep records.

Risk Rating & Required Action:

4A	Stop work. The risk is intolerable,	minate the hazard	redesign the activity before proceeding. A Safe Work
	Method Statement (SWMS) or hi	er-level authorisation	is required.
3H	Review and approve additional c	role 'ask	arts. Senior supervisor sign-off needed.
2M	Ensure all nominated controls are in	prace and efficive	Proceed with caution; monitor conditions.
1L	Proceed, following standard operating	ng procedurer Mon	itor 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:

- 1. Eliminate
- Substitute
- 3. Isolate
- 4. Engineering
- 5. Administrative
- 6. 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. Site Inspection	Uneven terrain, Hidden silica deposits	зн	- Conduct a preliminary site assessment to identify proential hazards. - Clearly mark uneven areas to prevent trips are calls. - Use ground-penetrating radar for hidden as a deposite. - Brief workers on terrain-related risks before a non-ceing work.]},{ step 2. Preparation hazards Equipment resultation Dust a osure initially \$ 3H residual sk 2iv controlly soures[2M
3. Equipment Setup	Machinery noise, Vibration	ЗН	- Use hearing protection such as ear muffs or plugs. - Implement equipment maintenance and testing before use. - Train operators on safe handling procedures. - Use vibration-dampening gloves to reduce exposure.']},{ step 4. Dust Containment hazards Poor ventilation Silica dust dispersion initialRisk, residualRisk, controlMeasures[1L
5. Drilling Operations	Silica dust release, Noise exposure	4A	- Use water suppression or dust extraction systems Rotate workers to limit exposure time.	2M



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS - Conduct regular air monitoring for dust levels Enforce the use of personal protective equipment such as masks and respirators.]},{ step 6. Wet Cutting hazards Water spillage Silica dust release initialRisk, residualRisk ,0 control was sures.	RESIDUAL RISK
7. Post-Operation Cleanup	Dust accumulation Material	ЗН		1L
9. Worker Decontamination	Clothing contamination, Skin contact with dust	2M		1L



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11. Emergency Procedures	Inadequate response elayed evacuation			2M
13. Breaks and Supervision	Fatigue, Improper monitoring	2M		1L



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15. Health Surveillance	Delayed detection of symptoms, Non-compliance with medical routines			1L
16. Weather Monitoring	Adverse weather conditions, High wind dust dispersion	2M		1L



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17. Record-Keeping and Documentation	Incomplete records accessale safety documentation	2M		1L
18. Site Security	Unauthorised access, Theft or equipment sabotage, Workplace violence	ЗН		1L



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19. Communication and Coordination	Communication breakdown, Safety instructions misinterpretation, Insufment coordination	ЗН		1L
20. Tool and Equipment Utilisation	Improper use of tools, Equipment failure, Electrocution, Manual handling injuries	ЗН		1L



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21. Task-Specific Personal Protective Equipment (PPE)	Lack of PPE availability, Incorrect PPE use, Wear and tear of PPE	3H		1L



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22. Consultation and Cooperation	Lack of worker involvement in safety policies, Inconsistent safety practices	3H		1L
23. Final Inspection and Review	Unchecked areas, Unresolved safety concerns	ЗН		1L



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK





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. ANY STATE OF AT ARE NOT APPLICABLE.

Queensland & Australian Capital Territory

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

 $\textbf{Legislation QLD:} \ \underline{\textbf{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws}$

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

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/legislative

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis codes-of ractions of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis codes-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-racti

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulation 201

Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/wo_place-

Codes of Practice NT: https://worksafe.nt.gov.au/f

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/le_lation

Codes of Practice for SA: https://www.safework.sa.gov.au/wor aces/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.

Victoria

Occupational Health at Safety Act

Occupational Health and affety gulations 2017

Legis on VIC: https://www.wsafe.vic.gov.au/occupational-health-and-safety-act-and-

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des on actice VI autros://www.worksafe.vic.gov.au/compliance-codes-and-codes-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

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