

Silica Dust	Exposure Prevention Risk	Assessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Eme	
THIS RISK ASSESSI	MENT IS APPROVED BY THE PC	BU OI Y PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts.	person conducting a busine or ur	ndertaking PCBU required to ensu	ire that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CL		DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project N.			



				F	RISK MATRIX				
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE MA	JOR CATASTROPH			HIERARCHY OF CONTROLS		
ALMOST CERTAIN	3 HIGH	3 HIGH		4 4 JTE ACUTE	SCORE	ACTION	Elimination Remove the hazard.		
LIKELY	2 MODERATE	3 HIGH	U U U U U U U U U U U U U U U U U U U	4 4 JTE ACUTE	4A ACUTE	DO NOT PROCEED	Substitution Replace the hazard. Isolation		
POSSIBLE	1 LOW	2 MODERATE		4 JTE ACUTE	3H HIGH	Rev before work art	Isolate People from the hazard Engineering Isolate the		
UNLIKELY	1 LOW	1 LOW		3 Z GH ACU E	MC RATE	Ensure control measures in place.	Activité istrativ e Chang		
RARE	1 LOW	1 LOW		3 GH H. 1	1L LOW	Monitor and keep records.	PP		
A Stop work. The risk is intolerable, cominate the hazarc predesign the activity before proceeding. A Safe Work Method Statement (SWMS) or his er-level authorisatic vis required. 3H Review and approve additional controls the proceed with caution; monitor conditions. 2M Ensure all nominated controls are imprace and efficience of with caution; monitor conditions. 1L Proceed, following standard operating procedurer Monitor and keep records. Consequence Scale:							Notes on Hierarchy of Controls: Remember to apply controls in the preferred order shown by the coloured pyramid: 1. Eliminate 2. Substitute 3. Isolate 4. Engineering 5. Administrative 6. PPE		
Consequence		injury/illness)	Project / Ass	Significant regula	pliance / Reputat		Always document why a lower-order control is accepted if		
Catastrophic Major	Fatality or perma Serious injury/illr days)			wn prosecution	Significant regulator intervention; criminal prosecution Improvement notice; major media coverage		elimination or substitution is not reasonably practicable. aligned with Safe Work Australia's Managing the risk of fatigue at		
Moderate	Medical-treatmen	nt injury; lost-tim	e > 1 moderate dela	y Minor breach; ad	Minor breach; adverse client comment		work (2023) and ISO 45001:2018 clauses 6–8.		
Minor	First-aid only, no	lost time	negligible dela	y Isolated non-con	formance				
			no schedule		Deviation caught and corrected on site				



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 Preparation	dispersal of silica dust due to movement, uncontrolled entry to the site	ЗН	 Conduct air monitoring to identify silica dust levels Establish exclusion zones for non-essential proponel Use water suppression systems during grand disturbat Set up dust-monitoring equipment at site boundart Implement access control programs for site enu Train personnel on site-species WHS requirement Use signage to non-rabin protected silica dust exposure Erect physics parriers to actric no muthors of access Engrap an obstation engigenist for successment Provide redetaile and empounding restricted areas 	2M
2. Equipment Inspection	wear or damage to equipment leading dust release, inadequate on the features on equipment	2	 Conduct precineration Linspections on all equipment Unsure quipment fitted with dust suppression systems Keep, understance logs to track equipment condition train operators in identifying equipment faults Use only equipment compliant with Australian standards Regularly service all machinery based on manufacturer guidelines Equip machinery with enclosed cabins fitted with air filtration Ensure operators use appropriate PPE Provide immediate repair or replacement for faulty equipment Conduct refresher training sessions for equipment operators 	1L
3. Handling Materials	manual handling injuries, silica dust release from damaged bags	ЗН	 Use mechanical aids for lifting heavy materials Train staff in safe manual handling techniques Store materials in appropriately labelled containers Ensure all bags are undamaged and properly sealed Use dedicated material handling equipment Regularly update handling procedures based on risk assessments Provide PPE such as gloves, masks, and protective clothing Maintain clean storage areas to reduce dust accumulation 	2M



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			- Implement a review system for handling practices	
			- Segregate high-risk materials in storage	
4. Cleaning and Housekeeping	accumulation of silica dust, unorganised workspaces	2M		1L
5. Personal Protective Equipment	improper fit or use of PPE, inadequate PPE provision	2M		1L
6. Worker Training	lack of awareness on silica risks, inadequate emergency response knowledge	ЗН		2M

Version 2.5

Review #



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7. Monitoring and Health Surveillance	failure to detect increased silica levels, health impacts on workers over time	ЗН		2М
8. Emergency Response	slow response to suca-release uncerts, confusion during emotion duries	зн		2М
9. Communication	miscommunication on safety measures, inadequate reporting of silica hazards	2M		1L



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10. Work Environment Design	inadequate ventilation leading to dust build-up, poorly designed workspaces increasing risk	ЗН		2М
11. Material Transport	spillages causing dust release, unsa transport methods	2М		1L
12. Weather Conditions	increased dust due to dry or windy conditions, reduced visibility due to dust storm	4A		2М



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13. Waste Management	improper disposal of silica-contaminated waste, cross-contamination with non- hazardous waste	ЗН		2М
14. Contractor Management	poor understanding of silica risks but contractors, lack of align contructions safety procedures	ЗН		2М
15. Review and Continuous Improvement	ineffectiveness of control measures leading to risk, non-compliance with updated safety standards	ЗН		2M



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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 R	EFERENCES
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEG	ISLATIVE REFERENCES ANY STATE AT ARE NOT APPLICABLE
Queensland & Australian Capital Territory Work Health and Safety Act 2011 Work Health and Safety Regulations 2011 Legislation QLD: <u>https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws</u> Codes of Practice QLD: <u>https://www.worksafe.gld.gov.au/laws-and-compliance/codes-of-practice</u> Legislation ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations</u> Codes of Practice ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</u>	Victoria Occupational Health and Safety Act and 4 Occupational Health and Safety Act and 4 Occupational Health and Safety Subject Safety Safet
New South Wales Work Health and Safety Act 2011 Work Health and Safety Regulations 2017 Legislation NSW: <u>https://www.safework.nsw.gov.au/legal-obligations/legislati</u> Codes of Practice NSW: <u>https://www.safework.nsw.gov.au/resource-library/lis</u>	Western Australia Work Health and Safety Act 2020 Work Health and Safety Regulations 2022 Legislation Western Australia: <u>https://www.commerce.wa.gov.au/worksafe/legislation</u> Codes of Practice WA: <u>https://www.commerce.wa.gov.au/worksafe/codes-practice</u>
Northern Territory Work Health and Safety (National Uniform Legislation) Act 2011 Work Health and Safety (National Uniform Legislation) Regulation 2011 Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/workplace-serve-laws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/formered-resources/compliance/workplace-serve-laws</u>	Safe Work Australia Links Law and Regulation (All States): <u>https://www.safeworkaustralia.gov.au/law-and-regulation</u> Model Codes of Practice: <u>https://www.safeworkaustralia.gov.au/resources-publications/model- codes-of-practice</u>
South Australia Work Health and Safety Act 2012 (SA) Work Health and Safety Regulations 2012 (SA) Legislation for SA: <u>https://www.safework.sa.gov.au/resources/legulation</u> Codes of Practice for SA: <u>https://www.safework.sa.gov.au/work_daces/codes-of-practice#COPs</u>	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
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	 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
Details of permits, licenses or access required by regulatory bodies (add or delete as required): Permits from local council Authorisation to commence 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

- Any required documents.