

Crea	te Blast Zones Risk Assess	sment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Emai	
THIS RISK ASSESSI	MENT IS APPROVED BY THE PCI		
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	OR PRI CIN 1. CO. TRACTOR I	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project New			



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	
And Method Statement (SWMS) or his er-level authorisatic is required. Sector proceeding. A bare work of the ended statement (SWMS) or his er-level authorisatic is required. Image: Coloured pyramid: Colou							Remember to apply controls in the preferred order shown by the coloured pyramid: Eliminate Substitute Isolate Engineering 	
Consequence		injury/illness)	Project / Ass	Significant regula	pliance / Reputat ator intervention; c		Always document why a lower-order control is accepted if	
Catastrophic Major	Fatality or perma Serious injury/illr days)			wn prosecution	tice; major media		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. Preparation	unauthorised access, incorrect equipment usage	зн	 Secure site perimeter to prevent unauthorised acces Ensure all equipment is checked and in proprovorking order. Conduct briefing sessions on equipment to Engage only licensed and trained personnels Set up clear signage indicating restricted zones Review all operations guideling with team. Provide necessary personal productive equipment (Pr/E). Establish domnunication obtocols or unknown personnel presence. Ensure emergingly contract list is curration. 	2М
2. Planning	miscommunication, inadequate blast planning	31	 Develue a concrehence blast plan detailing all steps. Develue a concrehence blast plan detailing all steps. Utilization channels with all stakeholders. Utilization channels are covered. eview previous blast data to mitigate risks. Confirm compliance with relevant legislation and standards. Establish communication channels for clear instructions. Schedule regular planning reviews before execution dates. Check that all licenses and permits are current. Create a backup plan in case of unexpected changes. Map out blast area with accurate dimensions. 	1L
3. Drilling	equipment malfunction, dust inhalation	зн	 Ensure equipment maintenance prior to operation. Provide dust masks to all workers on-site. Implement real-time monitoring for equipment performance. Establish a dust suppression system. Offer regular training on equipment operation and maintenance. Use water spray systems to minimise dust. Plan rest periods for operators to minimise fatigue. Ensure all operators hold appropriate certifications. 	2М



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			- Develop a procedure for escalating malfunction incidents.	
			- Install safety guards on all equipment.	
4. Loading Explosives	premature detonation, manual handling injuries	4A		2М
5. Securing Blast Zone	insufficient signage railure to evacuate area	ЗН		1L
6. Initiation Systems Check	system failure, incorrect wiring	4A		2M



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7. Detonation	misfire, flying debris	4A		2М
8. Post-Blast Inspection	residual live charge struct instability	зн		1L
9. Debris Clearing	sharp objects, heavy lifting	2M		1L



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10. Equipment Maintenance	moving parts, electrical risks	ЗН		1L
11. Review and Reporting	incomplete data, failure to learn from incidents	2М		1L
12. Training	lack of knowledge, inadequate practical application	ЗН		1L



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13. Community Liaison	public opposition, environmental impact	ЗН		2M
14. Emergency Planning	unforeseen events, inadequate resources	ЗН		2М
15. Decommissioning	hazardous waste handling, contamination risk	ЗН		1L



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16. Monitoring	failure to detect early warnings, outdated equipment	ЗН		1L
17. Continuous Improvement	resistance to change, inefficient practices	ЗН		1L
18. Record Keeping	data loss, inconsistent documentation	2M		1L



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19. Compliance	lapse in legal responsibilities, unawareness of regulations	ЗН		2M
20. Demobilisation	equipment transport risk, site restoration failure	ЗН		1L



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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 REFERENCES								
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISL	ATIVE 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: 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/codes-of-practice Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice	Victoria On opational Health as Safety Act and Occupational Health and onfety or gulations 2017 Legis from VIC: <u>https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- rulat</u> of the solution of the state of th							
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/legislatic Codes of Practice NSW: https://www.safework.nsw.gov.au/legal-obligations/legislatic	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 2015 Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/wd_place-servelaws Codes of Practice NT: https://worksafe.nt.gov.au/formed_resourcestice_servelaws	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/legislation</u> Codes of Practice for SA: <u>https://www.safework.sa.gov.au/work_aces/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/acts-and-regulations Codes of Practice for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations	 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 							
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.	 Managing the work environment and facilities How to manage work health and safety risks Managing risks of plant in the workplace Construction work 							