

Abrasive Blasting Operations	s of Mechanical Engineerin	g Template Risk Assessmen	it
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Ema	
THIS RISK ASSESSM	MENT IS APPROVED BY THE PC	BU OF THE PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a p is prepared before the proposed work starts.	person conducting a busine or un	ndertaking PCBL ¹¹ required to ensu	re that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CL	OR PRICE L. CO. TRACTOR I	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project Iv.			

Version 2.5 Authorised by Review # Review Date:



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 hime	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 effective	Proceed with caution; monitor conditions.
1L	Proceed, following standard operating	ig procedure //oni	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. Preparation	sharp objects, noise exposure	3H	- Conduct a site inspection to identify potential hazar and remove sharp objects - Use ear protection rated for the current noise coels - Establish an exclusion zone to limit acces - Ensure all personnel are trained in hazard identification - Use appropriate signage to charn of sharp object and noise basis - Provide induction training for any workers - Regularly reviews and upon the theories assessment before starting the task - Ensure contraining for the limit in a are functioning and available - Check all personal protection equipments up to date and fit for purpose - Use by a barries where practical	2M
2. Selecting Equipment	inadequate equipment, electrical hazards	31	- Select quipment appropriate for tasks from approved suppliers - Inderta is present inspections on all equipment - Use summent with safety features installed and operational - Implement power sources and cords for damage - Implement a tag-out system for defective equipment - Ensure only qualified personnel operate blasting equipment - Keep power cords clear of walkways to prevent tripping - Use surge protectors with electrical equipment - Regularly test safety devices and emergency stop functions - Maintain equipment according to manufacturer's instructions	2M
3. Setup Site	trip hazards, restricted access	3H	- Ensure work area is clear of unnecessary items - Mark hazards and uneven surfaces with high visibility tape - Establish clear walkways with appropriate signage - Implement exclusion zones for unauthorised personnel - Validate site setup against risk management plans - Ensure housekeeping materials are available for spills - Secure all loose items before commencing work - Arrange site lighting to reduce shadowing and improve visibility	2M



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			- Engage with team to confirm understanding of site layout	
			- Perform a pre-start checklist to verify setup integrity	
4. Material Handling	manual handling injuries, dust exposure	3H		2M
5. Equipment Assembly	pinch points, tool affunction	4A		3H
6. Blasting Operations	flying debris, high pressure equipment	4A		2M



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7. Monitoring and Supervision	operator error, equipment failure	3H		2M
8. Waste Management	environmental coronination per disposal	ВН		2M
9. Maintenance and Repairs	maintenance tool hazards, slippery surfaces	ЗН		2M



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10. Clean Up	residual dust, sharp debris	3Н		1L
11. Demobilisation	equipment damage, unsecured load	ЗН		2M
12. Final Inspections	hidden hazards, document errors	2M		1L



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13. Reporting and Review	information loss, incomplete records	3Н		1L
14. Continuous Improvement	complacency, lack of infantion	2M		1L
15. Emergency Preparedness	inadequate equipment, delayed response	4A		2M



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16. Training and Competency	skill deficit, non-compliance	ЗН		1L
17. Contractor Management	miscommunication, non-standard practices	ЗН		2M
18. Incident Response	poor investigation, lack of action	4A		2M



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19. Health Surveillance	unidentified health risks, insufficient data	3H		1L
20. Community and Environmental Management	public disturbance, pollution	ЗН		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. ANY STATE OF 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-or-practice

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/legislati

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis > odes-oi 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

Codes of Practice for SA: https://www.safework.sa.gov.au/work_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 34

Occupational Health and afety gulations 2017

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

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tes of actice VIC attps://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