

Abrasive Blasting of Smash Repairs 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:

1. **Eliminate**
2. **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 Preparation	Uneven surfaces, Falling objects	3H	<ul style="list-style-type: none"> - Conduct a site inspection to identify uneven surfaces and rectify them. - Ensure that all tools and equipment are properly secured when not in use. - Install safety signage to warn of potential hazards. - Use barriers or tape to demarcate areas. - Conduct safety briefing with all staff. - Ensure appropriate PPE is available for all workers. - Keep the area well lit during operation. - Perform regular housekeeping to remove debris. - Limit access to authorized personnel only. - Implement a communication plan for reporting hazards. 	2M
2. Equipment Inspection	Faulty equipment, Electrical hazards	3H	<ul style="list-style-type: none"> - Perform pre-operation checks on all equipment. - Use only equipment that has passed a certified safety inspection. - Ensure electrical equipment is tested and tagged. - Implement a lockout/tagout procedure for faulty equipment. - Provide training on the safe use of equipment. - Keep a maintenance log accessible at all times. - Replace damaged or worn tools immediately. - Ensure proper grounding of electrical tools. - Supervise use of new or rarely-used equipment. - Perform regular visual inspections for wear and tear. 	1L
3. PPE Usage	Inadequate respiratory protection, Inadequate eye protection	4A	<ul style="list-style-type: none"> - Provide respiratory protection that meets Australian standards. - Educate workers on the correct usage of PPE. - Ensure that all personnel use eye protection with side shields. - Regularly inspect PPE for damage or wear. - Maintain a PPE inventory to ensure availability. - Available alternatives for those with allergies to standard materials. - Provide a fit-test program for masks. - Implement a cleaning schedule for reusable PPE. 	2M

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			<ul style="list-style-type: none"> - Personalise PPE to improve compliance. - Continuously train staff on the importance of PPE. 	
4. Blast Material Handling	Silica dust, Skin infection	4A	<ul style="list-style-type: none"> - Use of PPE (respiratory protection, gloves, eye protection, earplugs) - Use of engineering controls (enclosed systems, local exhaust ventilation) - Use of administrative controls (training, signage, restricted access) - Regular maintenance and inspection of equipment - Use of water sprays to suppress dust - Regular cleaning of work areas - Use of barriers to prevent contact with materials - Regular health monitoring of workers - Use of first aid kits and emergency procedures - Regular training and refresher courses - Use of safety harnesses and fall protection - Regular inspection and testing of equipment - Use of warning signals and lights - Regular communication with workers - Use of safety barriers and cones - Regular maintenance and inspection of equipment - Use of water sprays to suppress dust - Regular cleaning of work areas - Use of barriers to prevent contact with materials - Regular health monitoring of workers - Use of first aid kits and emergency procedures - Regular training and refresher courses - Use of safety harnesses and fall protection - Regular inspection and testing of equipment - Use of warning signals and lights - Regular communication with workers - Use of safety barriers and cones 	2M
5. Noise Management	Hearing damage, Communication barriers	3H	<ul style="list-style-type: none"> - Use of PPE (earplugs, earmuffs) - Use of engineering controls (noise barriers, soundproofing) - Use of administrative controls (training, signage, restricted access) - Regular maintenance and inspection of equipment - Use of water sprays to suppress dust - Regular cleaning of work areas - Use of barriers to prevent contact with materials - Regular health monitoring of workers - Use of first aid kits and emergency procedures - Regular training and refresher courses - Use of safety harnesses and fall protection - Regular inspection and testing of equipment - Use of warning signals and lights - Regular communication with workers - Use of safety barriers and cones - Regular maintenance and inspection of equipment - Use of water sprays to suppress dust - Regular cleaning of work areas - Use of barriers to prevent contact with materials - Regular health monitoring of workers - Use of first aid kits and emergency procedures - Regular training and refresher courses - Use of safety harnesses and fall protection - Regular inspection and testing of equipment - Use of warning signals and lights - Regular communication with workers - Use of safety barriers and cones 	1L
6. Confined Space Entry	Asphyxiation, Chemical exposure	4A	<ul style="list-style-type: none"> - Use of PPE (respiratory protection, gloves, eye protection, earplugs) - Use of engineering controls (enclosed systems, local exhaust ventilation) - Use of administrative controls (training, signage, restricted access) - Regular maintenance and inspection of equipment - Use of water sprays to suppress dust - Regular cleaning of work areas - Use of barriers to prevent contact with materials - Regular health monitoring of workers - Use of first aid kits and emergency procedures - Regular training and refresher courses - Use of safety harnesses and fall protection - Regular inspection and testing of equipment - Use of warning signals and lights - Regular communication with workers - Use of safety barriers and cones - Regular maintenance and inspection of equipment - Use of water sprays to suppress dust - Regular cleaning of work areas - Use of barriers to prevent contact with materials - Regular health monitoring of workers - Use of first aid kits and emergency procedures - Regular training and refresher courses - Use of safety harnesses and fall protection - Regular inspection and testing of equipment - Use of warning signals and lights - Regular communication with workers - Use of safety barriers and cones 	2M

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7. Surface Cleaning	Chemical burns, Slips and trips	3H		1L
8. Waste Management	Chemical leakage, environmental contamination	4A		2M
9. Transportation of Equipment	Manual handling injuries, Vehicle accidents	3H		1L

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10. Emergency Response	Delay in medical assistance, Inadequate emergency procedures	3H		1L
11. Fall Prevention	Falls from height, Inadequate fall protection	3H		2M
12. Blast Operations	Flying debris, Equipment malfunction	4A		2M

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13. Ventilation Systems	Inadequate ventilation, Exposure to airborne contaminants	4A		2M
14. Storage of Materials	Material spills, Fire hazard	4A		1L
15. Post-operation Cleanup	Slip and trip hazards, Leftover abrasive material	3H		1L

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16. Workers' Health Monitoring	Undetected health issues, Long-term exposure effects	4A		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.