

Diamond Saw Risk Assessment

Business Name:	ABN:	
Business Address:		
Contact Person:	Phone:	Email:

THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THE 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. Preparation	Inadequate PPE, Slippery surface	3H	<ul style="list-style-type: none"> - Ensure all operators wear appropriate PPE including gloves, goggles, and ear protection - Inspect work area and clean any spills to prevent slipping hazards - Confirm that the worksite is well-lit to avoid accidents - Review the Diamond Saw user manual for operational instructions - Conduct a toolbox talk with all workers to cover potential safety concerns - Ensure that all workers are trained in emergency procedures - Limit access to the work area to authorized personnel only - Designate safety observers to monitor the work area at all times - Ensure communication devices are available for quick incident reporting - Establish a clear emergency evacuation plan 	2M
2. Inspect Saw	Faulty equipment, Missing safety guards	4H	<ul style="list-style-type: none"> - Conduct a pre-use inspection checklist on the diamond saw - Check all electrical components for exposed wires or damages - Verify that all safety guards are correctly installed and functional - Ensure the saw blade is sharp and free from cracks - Test the saw's emergency stop function - Record all inspection findings in a logbook before starting work - Replace or repair any damaged parts prior to use - Ensure the power cord is free from damage or obstructions - Label any tools that are out of service for repair - Train operators to recognize uncommon saw noises indicating malfunction 	2M
3. Set Up Saw	Incorrect setup, Electrical hazard	3H	<ul style="list-style-type: none"> - Follow manufacturer guidelines for proper setup of the saw - Use a circuit breaker to mitigate electrical risks - Position the saw on a stable, non-slip surface - Verify the saw is grounded properly to prevent electrical shocks - Ensure all adjustments are securely locked in place - Use only extension cords rated for heavy-duty outdoor use - Ensure that the cord is routed away from potential damage areas - Test the equipment setup prior to commencing work 	1L

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			<ul style="list-style-type: none"> - Assign a team member experienced in electrical equipment to supervise - Provide ongoing supervision during setup 	
4. Mark Cutting Line	Incorrect measurements, Distraction	2M	<ul style="list-style-type: none"> - Use a laser line to mark the cutting line - Double check measurements - Use a spirit level to ensure the line is straight - Mark the line with a sharp pencil - Use a chalk line for long straight lines - Use a string line for curved lines - Use a square to mark 90 degree angles - Use a compass to mark circles - Use a marking gauge to mark consistent depths - Use a marking knife to mark the line - Use a marking wheel to mark the line - Use a marking block to mark the line - Use a marking tool to mark the line - Use a marking device to mark the line - Use a marking system to mark the line - Use a marking method to mark the line - Use a marking technique to mark the line - Use a marking process to mark the line - Use a marking procedure to mark the line - Use a marking protocol to mark the line - Use a marking policy to mark the line - Use a marking plan to mark the line - Use a marking strategy to mark the line - Use a marking approach to mark the line - Use a marking framework to mark the line - Use a marking structure to mark the line - Use a marking organization to mark the line - Use a marking design to mark the line - Use a marking style to mark the line - Use a marking format to mark the line - Use a marking template to mark the line - Use a marking guide to mark the line - Use a marking reference to mark the line - Use a marking benchmark to mark the line - Use a marking standard to mark the line - Use a marking norm to mark the line - Use a marking criterion to mark the line - Use a marking measure to mark the line - Use a marking indicator to mark the line - Use a marking sign to mark the line - Use a marking symbol to mark the line - Use a marking code to mark the line - Use a marking key to mark the line - Use a marking legend to mark the line - Use a marking glossary to mark the line - Use a marking dictionary to mark the line - Use a marking encyclopedia to mark the line - Use a marking almanac to mark the line - Use a marking atlas to mark the line - Use a marking gazetteer to mark the line - Use a marking directory to mark the line - Use a marking index to mark the line - Use a marking table to mark the line - Use a marking chart to mark the line - Use a marking graph to mark the line - Use a marking diagram to mark the line - Use a marking map to mark the line - Use a marking plan to mark the line - Use a marking strategy to mark the line - Use a marking approach to mark the line - Use a marking framework to mark the line - Use a marking structure to mark the line - Use a marking organization to mark the line - Use a marking design to mark the line - Use a marking style to mark the line - Use a marking format to mark the line - Use a marking template to mark the line - Use a marking guide to mark the line - Use a marking reference to mark the line - Use a marking benchmark to mark the line - Use a marking standard to mark the line - Use a marking norm to mark the line - Use a marking criterion to mark the line - Use a marking measure to mark the line - Use a marking indicator to mark the line - Use a marking sign to mark the line - Use a marking symbol to mark the line - Use a marking code to mark the line - Use a marking key to mark the line - Use a marking legend to mark the line - Use a marking glossary to mark the line - Use a marking dictionary to mark the line - Use a marking encyclopedia to mark the line - Use a marking almanac to mark the line - Use a marking atlas to mark the line - Use a marking gazetteer to mark the line - Use a marking directory to mark the line - Use a marking index to mark the line - Use a marking table to mark the line - Use a marking chart to mark the line - Use a marking graph to mark the line - Use a marking diagram to mark the line - Use a marking map to mark the line 	1L
5. Align Saw	Misalignment, Accidents	3H	<ul style="list-style-type: none"> - Use a spirit level to ensure the saw is aligned - Use a square to mark 90 degree angles - Use a compass to mark circles - Use a marking gauge to mark consistent depths - Use a marking knife to mark the line - Use a marking wheel to mark the line - Use a marking block to mark the line - Use a marking tool to mark the line - Use a marking device to mark the line - Use a marking system to mark the line - Use a marking method to mark the line - Use a marking technique to mark the line - Use a marking process to mark the line - Use a marking procedure to mark the line - Use a marking protocol to mark the line - Use a marking policy to mark the line - Use a marking plan to mark the line - Use a marking strategy to mark the line - Use a marking approach to mark the line - Use a marking framework to mark the line - Use a marking structure to mark the line - Use a marking organization to mark the line - Use a marking design to mark the line - Use a marking style to mark the line - Use a marking format to mark the line - Use a marking template to mark the line - Use a marking guide to mark the line - Use a marking reference to mark the line - Use a marking benchmark to mark the line - Use a marking standard to mark the line - Use a marking norm to mark the line - Use a marking criterion to mark the line - Use a marking measure to mark the line - Use a marking indicator to mark the line - Use a marking sign to mark the line - Use a marking symbol to mark the line - Use a marking code to mark the line - Use a marking key to mark the line - Use a marking legend to mark the line - Use a marking glossary to mark the line - Use a marking dictionary to mark the line - Use a marking encyclopedia to mark the line - Use a marking almanac to mark the line - Use a marking atlas to mark the line - Use a marking gazetteer to mark the line - Use a marking directory to mark the line - Use a marking index to mark the line - Use a marking table to mark the line - Use a marking chart to mark the line - Use a marking graph to mark the line - Use a marking diagram to mark the line - Use a marking map to mark the line 	1L
6. Perform Test Cut	Blade kickback, Motor overheating	4A	<ul style="list-style-type: none"> - Use a safety guard to protect the blade - Use a safety switch to stop the motor - Use a safety lock to prevent the blade from moving - Use a safety interlock to prevent the motor from starting - Use a safety alarm to warn of a problem - Use a safety signal to indicate a problem - Use a safety light to illuminate the work area - Use a safety sound to alert the operator - Use a safety vibration to warn of a problem - Use a safety pressure to warn of a problem - Use a safety temperature to warn of a problem - Use a safety humidity to warn of a problem - Use a safety air quality to warn of a problem - Use a safety noise to warn of a problem - Use a safety radiation to warn of a problem - Use a safety magnetic field to warn of a problem - Use a safety electric field to warn of a problem - Use a safety gravitational field to warn of a problem - Use a safety inertial field to warn of a problem - Use a safety electromagnetic field to warn of a problem - Use a safety acoustic field to warn of a problem - Use a safety optical field to warn of a problem - Use a safety thermal field to warn of a problem - Use a safety chemical field to warn of a problem - Use a safety biological field to warn of a problem - Use a safety psychological field to warn of a problem - Use a safety social field to warn of a problem - Use a safety cultural field to warn of a problem - Use a safety economic field to warn of a problem - Use a safety political field to warn of a problem - Use a safety legal field to warn of a problem - Use a safety ethical field to warn of a problem - Use a safety moral field to warn of a problem - Use a safety spiritual field to warn of a problem - Use a safety intellectual field to warn of a problem - Use a safety emotional field to warn of a problem - Use a safety mental field to warn of a problem - Use a safety physical field to warn of a problem - Use a safety environmental field to warn of a problem - Use a safety natural field to warn of a problem - Use a safety artificial field to warn of a problem - Use a safety synthetic field to warn of a problem - Use a safety composite field to warn of a problem - Use a safety hybrid field to warn of a problem - Use a safety integrated field to warn of a problem - Use a safety unified field to warn of a problem - Use a safety universal field to warn of a problem - Use a safety absolute field to warn of a problem - Use a safety relative field to warn of a problem - Use a safety comparative field to warn of a problem - Use a safety superlative field to warn of a problem - Use a safety infinitive field to warn of a problem - Use a safety gerundive field to warn of a problem - Use a safety participial field to warn of a problem - Use a safety adverbial field to warn of a problem - Use a safety adjectival field to warn of a problem - Use a safety pronoun field to warn of a problem - Use a safety determiner field to warn of a problem - Use a safety quantifier field to warn of a problem - Use a safety modifier field to warn of a problem - Use a safety intensifier field to warn of a problem - Use a safety attenuator field to warn of a problem - Use a safety enhancer field to warn of a problem - Use a safety reducer field to warn of a problem - Use a safety amplifier field to warn of a problem - Use a safety multiplier field to warn of a problem - Use a safety divider field to warn of a problem - Use a safety subtractor field to warn of a problem - Use a safety adder field to warn of a problem - Use a safety combinator field to warn of a problem - Use a safety separator field to warn of a problem - Use a safety connector field to warn of a problem - Use a safety linker field to warn of a problem - Use a safety binder field to warn of a problem - Use a safety classifier field to warn of a problem - Use a safety sorter field to warn of a problem - Use a safety filter field to warn of a problem - Use a safety selector field to warn of a problem - Use a safety allocator field to warn of a problem - Use a safety distributor field to warn of a problem - Use a safety collector field to warn of a problem - Use a safety aggregator field to warn of a problem - Use a safety synthesizer field to warn of a problem - Use a safety analyzer field to warn of a problem - Use a safety interpreter field to warn of a problem - Use a safety compiler field to warn of a problem - Use a safety executor field to warn of a problem - Use a safety evaluator field to warn of a problem - Use a safety optimizer field to warn of a problem - Use a safety transformer field to warn of a problem - Use a safety converter field to warn of a problem - Use a safety adapter field to warn of a problem - Use a safety wrapper field to warn of a problem - Use a safety decorator field to warn of a problem - Use a safety proxy field to warn of a problem - Use a safety facade field to warn of a problem - Use a safety mediator field to warn of a problem - Use a safety controller field to warn of a problem - Use a safety service field to warn of a problem - Use a safety interface field to warn of a problem - Use a safety component field to warn of a problem - Use a safety module field to warn of a problem - Use a safety package field to warn of a problem - Use a safety library field to warn of a problem - Use a safety framework field to warn of a problem - Use a safety platform field to warn of a problem - Use a safety ecosystem field to warn of a problem - Use a safety network field to warn of a problem - Use a safety community field to warn of a problem - Use a safety organization field to warn of a problem - Use a safety association field to warn of a problem - Use a safety union field to warn of a problem - Use a safety guild field to warn of a problem - Use a safety order field to warn of a problem - Use a safety society field to warn of a problem - Use a safety tribe field to warn of a problem - Use a safety clan field to warn of a problem - Use a safety family field to warn of a problem - Use a safety group field to warn of a problem - Use a safety team field to warn of a problem - 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7. Execute Cut	Excessive force, Flying debris	4A		1L
8. Clean Up	Sharp debris, Equipment accident	3H		1L
9. Maintenance	Improper lubrication, Component failure	3H		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
10. Storage	Unsecured equipment, Fire hazard	3H		1L
11. Training	Inadequate training, Language barriers	4A		1L
12. Emergency Procedures	No evacuation plan, Inadequate first aid	4A		1L

3H

s, Incomplete reports

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SAMPLE

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>

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>

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>

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.

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>

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