

Dust Control In Saw Milling 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 | 4A ACUTE | DO NOT PROCEED | Elimination Remove the hazard. | |
| LIKELY | 2 MODERATE | 3 HIGH | 3 HIGH | 4 ACUTE | 4 ACUTE | | | 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:

- Eliminate
- Substitute
- Isolate
- Engineering
- Administrative
- 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 | dust generation, slips and trips | 3H | <ul style="list-style-type: none"> - Conduct site inspection for any open dust areas - Plan task scheduling to minimise dust exposure - Ensure adequate lighting to prevent slips and trips - Use signage to indicate no-go zones during operation - Train staff on the use of personal protective equipment (PPE) like masks and goggles - Provide cleaning materials near work sites to address dust spills - Conduct regular team meetings to discuss dust management strategies - Ensure floors are dry and free of obstacles - Establish a reporting mechanism for hazards - Inform workers of emergency procedures | 2M |
| 2. Setting Up Equipment | electrical hazards, dust exposure | 4H | <ul style="list-style-type: none"> - Ensure equipment is tested and tagged by a qualified electrician - Set up equipment in a well-ventilated area to disperse dust - Use extension cords rated for the equipment to prevent electrical overload - Establish a dust extraction system close to operational areas - Fit vacuum attachments to reduce airborne dust during operations - Check for loose wiring and report immediately - Use electrically rated PPE for necessary personnel working with power tools - Install Residual Current Devices (RCDs) - Conduct daily audits on equipment setup - Log all setup procedures and inspections | 3H |
| 3. Pre-Operational Checks | machine malfunction, operator fatigue | 3H | <ul style="list-style-type: none"> - Perform early morning equipment testing before operations start - Verify all safety guards and devices are operational - Encourage operators to take regular breaks to reduce fatigue - Check fuel levels to prevent mid-task refueling - Train operators in recognizing early signs of machine failure - Establish a shift rotation schedule to prevent overworking - Maintain a logbook of all pre-operational checks - Encourage reporting discrepancies before use | 2M |

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| | | | <ul style="list-style-type: none"> - Ensure first aid kit is stocked and accessible - Control vehicular paths to minimize unnecessary exposure to dust | |
| 4. Operating Saw | dust inhalation, contact with moving parts | 4A | <ul style="list-style-type: none"> - Use appropriate PPE (respirator, safety glasses, earplugs) - Ensure proper ventilation and dust extraction - Maintain safe distance from moving parts - Use proper cutting technique - Keep work area clean and free of debris - Use appropriate tools and equipment - Follow manufacturer's instructions - Use proper lifting techniques - Avoid overexertion - Take regular breaks - Use proper posture - Avoid distractions - Use proper communication - Follow safety protocols - Use proper storage and handling - Keep work area well-lit - Use proper footing - Avoid tripping hazards - Use proper hand signals - Follow proper safety procedures - Use proper safety equipment - Keep work area clear of obstacles - Use proper safety barriers - Follow proper safety rules - Use proper safety training - Follow proper safety guidelines - Use proper safety standards - Follow proper safety regulations - Use proper safety laws - Follow proper safety codes - Use proper safety standards - Follow proper safety regulations - Use proper safety laws - Follow proper safety codes | 3H |
| 5. Monitoring Air Quality | poor ventilation, high dust concentration | 3H | <ul style="list-style-type: none"> - Use appropriate PPE (respirator, safety glasses, earplugs) - Ensure proper ventilation and dust extraction - Maintain safe distance from moving parts - Use proper cutting technique - Keep work area clean and free of debris - Use appropriate tools and equipment - Follow manufacturer's instructions - Use proper lifting techniques - Avoid overexertion - Take regular breaks - Use proper posture - Avoid distractions - Use proper communication - Follow safety protocols - Use proper storage and handling - Keep work area well-lit - Use proper footing - Avoid tripping hazards - Use proper hand signals - Follow proper safety procedures - Use proper safety equipment - Keep work area clear of obstacles - Use proper safety barriers - Follow proper safety rules - Use proper safety training - Follow proper safety guidelines - Use proper safety standards - Follow proper safety regulations - Use proper safety laws - Follow proper safety codes - Use proper safety standards - Follow proper safety regulations - Use proper safety laws - Follow proper safety codes | 2M |
| 6. Maintenance | slippery surfaces, excess dust accumulation | 3H | <ul style="list-style-type: none"> - Use appropriate PPE (respirator, safety glasses, earplugs) - Ensure proper ventilation and dust extraction - Maintain safe distance from moving parts - Use proper cutting technique - Keep work area clean and free of debris - Use appropriate tools and equipment - Follow manufacturer's instructions - Use proper lifting techniques - Avoid overexertion - Take regular breaks - Use proper posture - Avoid distractions - Use proper communication - Follow safety protocols - Use proper storage and handling - Keep work area well-lit - Use proper footing - Avoid tripping hazards - Use proper hand signals - Follow proper safety procedures - Use proper safety equipment - Keep work area clear of obstacles - Use proper safety barriers - Follow proper safety rules - Use proper safety training - Follow proper safety guidelines - Use proper safety standards - Follow proper safety regulations - Use proper safety laws - Follow proper safety codes - Use proper safety standards - Follow proper safety regulations - Use proper safety laws - Follow proper safety codes | 2M |

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| | | | | |
| 7. Inspecting Raw Materials | dust from materials, contaminated materials | 3H | | 1L |
| 8. Loading and Unloading | ergonomic injuries, slip and fall hazards | 3H | | 2M |
| 9. Waste Disposal | dust escape, sharp object injury | 3H | | 1L |

onset, injuries during

4A

SAMPLE

| JOB STEP | POTENTIAL HAZARDS | IR | CONTROL MEASURES | RR |
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| | | | | |
| 13. Communication | miscommunication, lack of incident reporting | 3H | | 1L |
| 14. Shift Handover | missed updates, handover gaps | 3H | | 2M |
| 15. Site Security | unauthorized access, vandalism | 3H | | 1L |

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| | | | <div>SAMPLE</div> | |
| | | | | |

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.