

Lung-Respirable Airborne Fibre Monitoring 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: | | | | | | | | Notes on Hierarchy of Controls: | |
| 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. | | | | | | Remember to apply controls in the preferred order shown by the coloured pyramid: | |
| 3H | | Review and approve additional controls before task starts. Senior supervisor sign-off needed. | | | | | | 1. Eliminate | |
| 2M | | Ensure all nominated controls are in place and effective. Proceed with caution; monitor conditions. | | | | | | 2. Substitute | |
| 1L | | Proceed, following standard operating procedures. Monitor and keep records. | | | | | | 3. Isolate | |
| Consequence Scale: | | | | | | | | 4. Engineering | |
| Consequence | People (injury/illness) | | Project / Assets | | Compliance / Reputation | | | 5. Administrative | |
| Catastrophic | Fatality or permanent total disability | | project shutdown | | Significant regulator intervention; criminal prosecution | | | 6. PPE | |
| Major | Serious injury/illness (hospital > 5 days) | | critical delay | | Improvement notice; major media coverage | | | Always document why a lower-order control is accepted if elimination or substitution is not reasonably practicable. | |
| Moderate | Medical-treatment injury; lost-time > 1 day | | moderate delay | | Minor breach; adverse client comment | | | <i>aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.</i> | |
| Minor | First-aid only, no lost time | | negligible delay | | Isolated non-conformance | | | | |
| Insignificant | No injury | | no schedule impact | | 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 | Inadequate equipment, Lack of training for personnel, Incorrect documentation procedures | 3H | <ul style="list-style-type: none"> - Conduct comprehensive training sessions for personnel - Verify all equipment is available and in compliance with standards - Develop and review documentation procedures with the team - Assign responsibilities to trained personnel - Ensure supervision by experienced workers - Establish communication protocols for incomplete tasks - Confirm proper PPE is available and fit for purpose - Schedule regular briefings and updates on progress - Validate all work requirements are understood by involved personnel - Implement a monitoring system for preparation phases | 1L |
| 2. Site Analysis | Poor site conditions identification, Incorrect hazard mapping, Weather impacts | 3H | <ul style="list-style-type: none"> - Conduct initial visit for site familiarisation - Review site maps for accurate hazard identification - Involve experienced personnel in site analysis - Monitor weather conditions and plan accordingly - Create a detailed hazard map with input from experienced personnel - Use technology tools for site assessment accuracy - Verify all findings with a secondary review team - Implement temporary controls for identified hazards - Establish clear marking of hazardous zones - Ensure availability of evacuation plans understood by all workers | 2M |
| 3. Equipment Inspection | Malfunctioning equipment, Equipment not calibrated, Faulty protective gear | 3H | <ul style="list-style-type: none"> - Conduct thorough inspection of all equipment - License qualified personnel for equipment checks - Use a checklist to ensure completeness of inspection - Calibration of equipment by authorised personnel - Immediate tagging out of faulty equipment - Replacement of defective items on priority base - Verification of PPE for integrity and compliance - Secure approvals for all inspection completions | 2M |

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| | | | <ul style="list-style-type: none"> - Use only certified equipment for tasks - Instruct personnel on identification of equipment failures | |
| 4. Fibre Monitoring Setup | Incorrect setup of monitoring devices, Lack of awareness of device locations, Undetected deviations | 3H | [REDACTED] | 1L |
| 5. Data Collection | Human error in data recording, Data device malfunction, Data misinterpretation | 4A | [REDACTED] | 2M |
| 6. Data Analysis | Erroneous data interpretation, Inaccurate thresholds application, Overlooking of critical data points | 4A | [REDACTED] | 2M |

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| | | | | |
| 7. Reporting | Incomplete reports, Miscommunication of findings, Report manipulation | 4A | | 1L |
| 8. Review and Feedback | Resistance to feedback, Incomplete issue resolution, Feedback not reaching the right personnel | 3H | | 1L |
| 9. Corrective Actions | Delayed action implementation, Unclear action responsibilities, Ineffective corrective measures | 4A | | 2M |

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| | | | | |
| 10. Validation and Control | Unsuccessful validation of controls, Controls bypassed, Control measures fade out over time | 3H | | 1L |
| 11. Training and Awareness | Insufficient training content, Participants disengaged, Outdated training materials | 3H | | 1L |
| 12. Emergency Planning | Emergency procedures unclear, Lack of resources during emergencies, Infrequent drills | 4A | | 2M |

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| | | | | |
| 13. Decommissioning Equipment | Inadequate equipment dismantling, Environmental contamination, Accidental personnel injury during decommission | 4A | | 2M |
| 14. Documentation Systems | Data loss, Difficulty in accessing records, Non-compliance with standards | 4A | | 2M |
| 15. Monitoring and Review | Inconsistent monitoring, Lack of review procedures, Data unreliable for decision-making | 4A | | 2M |

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| | | | | |
| 16. Closing Meeting | Unaddressed items, Incomplete action points, Stakeholder non-participation | 3H | | 1L |
| 17. Project Evaluation | Inadequate evaluation process, Bias in evaluation outcomes, Overlooked insights | 4A | | 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 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://www.worksafe.nt.gov.au/laws-and-compliance/workplace-safety-laws>

Codes of Practice NT: <https://www.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://www.worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations>

Codes of Practice for TAS: <https://www.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.