

| Vibration Induc | ced By Heavy Machinery R | isk Assessment | |
|---|----------------------------------|-----------------------------------|---------------------------|
| Business Name: | | ABN: | |
| Business Address: | | | |
| Contact Person: | Phone: | Ema. | |
| | <u>'</u> | | |
| THIS RISK ASSESSI | MENT IS APPROVED BY THE PC | BU OI ' AROJECT | |
| Under the Work Health and Safety Regulation (WHS Regulation), a pis prepared before the proposed work starts. | person conducting a busine or un | ndertaking PCBU required to ensur | re that a RISK ASSESSMENT |
| Full Name: | | | |
| Signature: | | ritle: | Date: |
| | | | |
| CL | OR PRICE LCO. TRACTOR I | DETAILS | |
| Client: | | SCOPE OF | WORKS |
| Project Name: | | | |
| Project Address: | | | |
| Project Manager: | | | |
| Contact Phone: | | | |
| Date Risk Assessment supplied to Project In. | | | |

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 // Ion | 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. Site Inspection | Uneven surfaces, Obstructions | ЗН | - Conduct a thorough site walk-through - Identify and mark uneven surfaces - Clear debris and obstructions - Use safety signage - Provide special footwear - Implement site access contro - Regular inspections criedles - Engage standistic clean less - Use for riers in crestriot pareas - Educition prokers an nazard awareness | 2M |
| 2. Equipment Check | Faulty machinery, Inadequate maintenance | | - Regult lequipment in internance - re-operation or icks Developed attion or icks Developed attion or icks Developed attion or icks - Conduct visual inspections - Log and address equipment faults - Ensure spare parts availability - Immediate repair protocols - Update operation manuals - Train staff on equipment handling | ЗН |
| 3. Operator Training | Insufficient training, Incorrect handling | 4A | - Implement comprehensive training programs - Schedule regular refresher courses - Certify all operators - Use simulated environments for training - Instruct on proper handling techniques - Monitor ongoing competence - Evaluate operator performance - Provide feedback and corrective actions | 2M |



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| | | | - Use visual and instructional aids | |
| | | | - Document and log training sessions | |
| 4. Machine Operation | Mechanical failure, Excessive vibrations | 4A | | 2M |
| 5. Worker Ergonomics | Improper posture, extended periods of operation | ЗН | | 2M |
| 6. Vibration Monitoring | Continuous exposure, Equipment degradation | 3Н | | 2M |



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|-------------------------------|---|-----------------|--|------------------|
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| 7. Communication Protocols | Miscommunication, Delayed response to hazards | зн | | 2M |
| 8. Emergency Procedures | Lack of preparedries, Delevacuation | JA | | 3Н |
| 9. Health Surveillance | Health deterioration, Unreported injuries | ЗН | | 2M |

Review Date:



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|---|---------------------------------------|-----------------|--|------------------|
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| 10. Documentation and Reporting | Incomplete records, Delayed reporting | 3H | | 2M |
| 11. Environmental Controls | Noise pollution, Dust particles | 4A | | 2M |
| 12. Implementing Safe Work Practices | Non-compliance, Unsafe behaviours | 4A | | 2M |



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| | | | | |
| 13. Machinery Decommissioning | Accidental activation, Residual energy | 4A | | ЗН |
| 14. Waste Management | Chemical spills, Improposition | ЗН | | 2M |
| 15. Regular Review of Risk Assessments | Outdated assessments, Unaddressed risks | ЗН | | 2M |



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| | | | | |
| | | | | |
| 16. Stakeholder Engagement | Lack of awareness, Resistance to changes | ЗН | | 2M |
| 17. Legal Compliance | Regulatory breaches, Non-compliance fines | 4A | | 2M |
| 18. Community Safety | Public exposure, Community complaints | 3H | | 2M |



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| 19. Personal Protective Equipment (PPE) | Ineffective PPE, PPE non-compliance | ЗН | | 2M |
| 20. Post-Operation Review | Overlooked safety issues, Unresolved incidents | ЗН | | 2M |
| | | | | |



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

 $\underline{\textbf{Legislation QLD:}} \ \underline{\textbf{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws}}$

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/legislative

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis codes-of ractions of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis codes-of-ractions-of-racti

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulation 2011

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_lation

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 affety gulations 2017

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

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les on actice VI atps://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