

## Rail Transport Inside The Job Site 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<br>HIGH     | 3<br>HIGH     | 4<br>ACUTE    | 4<br>ACUTE | 4<br>ACUTE   |                |                                   | <b>Elimination</b><br>Remove the hazard.    |  |
| LIKELY         | 2<br>MODERATE | 3<br>HIGH     | 3<br>HIGH     | 4<br>ACUTE | 4<br>ACUTE   | 4A<br>ACUTE    | DO NOT PROCEED                    | <b>Substitution</b><br>Replace the hazard.  |  |
| POSSIBLE       | 1<br>LOW      | 2<br>MODERATE | 3<br>HIGH     | 4<br>ACUTE | 4<br>ACUTE   | 3H<br>HIGH     | Review before work starts.        | Isolation<br>Isolate People from the hazard |  |
| UNLIKELY       | 1<br>LOW      | 1<br>LOW      | 2<br>MODERATE | 3<br>HIGH  | 4<br>ACUTE   | 2M<br>MODERATE | Ensure control measures in place. | <b>Engineering</b><br>Isolate the hazard    |  |
| RARE           | 1<br>LOW      | 1<br>LOW      | 2<br>MODERATE | 3<br>HIGH  | 3<br>HIGH    | 1L<br>LOW      | Monitor and keep records.         | <b>Administrative</b><br>Change             |  |
|                |               |               |               |            |              |                |                                   | <b>PPE</b>                                  |  |

### 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        | Inadequate training, Absence of safety equipment | 3H           | <ul style="list-style-type: none"> <li>- Ensure all personnel undergo safety training specific to rail transport</li> <li>- Verify the availability of appropriate safety equipment before commencement</li> <li>- Conduct a safety briefing outlining potential hazards</li> <li>- Review and ensure understanding of site-specific safety protocols</li> <li>- Implement a checklist for equipment inspection</li> <li>- Assign a safety officer responsible for monitoring preparation activities</li> <li>- Limit access to the preparation area to authorised personnel only</li> <li>- Clearly mark the preparation area with warning signs</li> <li>- Encourage reporting of identified safety concerns during preparation</li> <li>- Use personal protective equipment suitable for the conditions</li> </ul> | 2M            |
| 2. Vehicle Inspection | Faulty brakes, Loose rail fittings               | 3H           | <ul style="list-style-type: none"> <li>- Conduct a thorough inspection using a pre-approved checklist</li> <li>- Validate brake functionality through physical and visual checks</li> <li>- Tighten or replace any loose rail fittings immediately</li> <li>- Employ a qualified mechanic for inspections</li> <li>- Record inspection outcomes in a logbook for accountability</li> <li>- Schedule regular maintenance for all rail vehicles</li> <li>- Monitor vehicle performance consistently throughout the day</li> <li>- Display repair status signage visibly on vehicles under inspection</li> <li>- Allocate time for additional inspections when needed</li> <li>- Implement a procedure for immediate reporting of any faults</li> </ul>  | 2M            |
| 3. Loading Operations | Overloading, Uneven weight distribution          | 4A           | <ul style="list-style-type: none"> <li>- Adhere strictly to vehicle loading capacities</li> <li>- Use weight measuring equipment to ensure compliance with load limits</li> <li>- Train staff on the importance of even weight distribution</li> <li>- Check and double-check securement of loads before movement</li> <li>- Appoint a supervisor to oversee all loading activities</li> <li>- Utilise barriers to define loading zones clearly</li> <li>- Conduct regular drills on emergency response procedures</li> <li>- Install cameras to monitor loading operations for compliance</li> </ul>   | 2M            |

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|                         |                                      |              | <ul style="list-style-type: none"> <li>- Implement a communication protocol for load coordination</li> <li>- Engage additional staff during complex loading tasks</li> </ul>                          |               |
| 4. Rail Transport       | Derailment, Collisions               | 4A           | <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> | 3H            |
| 5. Unloading Operations | Falling objects, Personnel injury    | 3H           | <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>                   | 2M            |
| 6. Maintenance          | Equipment failure, Chemical exposure | 3H           | <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>   | 2M            |

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|                         |                                      |              |  |               |
| 7. Emergency Procedures | Panic, Inadequate emergency response | 4A           |  | 2M            |
| 8. Track Maintenance    | Track wear, Debris                   | 3H           |  | 2M            |
| 9. Communication        | Miscommunication, Signal failure     | 3H           |  | 2M            |

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|------------------------|---|--------------|--|---------------|
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|                        |   |              |  |               |
| 10. Training           | Insufficient skills, Lack of awareness    | 3H           |  | 2M            |
| 11. Incident Reporting | Under-reporting, Inaccurate documentation | 3H           |  | 2M            |
| 12. PPE Management     | Improper use, Damage to PPE               | 3H           |  | 2M            |

| 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 |
|                            |   |              |  |               |
| 13. Environment Management | Pollution, Wildlife disruption            | 4A           |  | 2M            |
| 14. Security               | Access by unauthorised personnel<br>Theft | 3H           |  | 2M            |
| 15. Compliance Monitoring  | Non-compliance, Lack of enforcement       | 3H           |  | 2M            |

| JOB STEP            | POTENTIAL HAZARDS      | IR           | CONTROL MEASURES  | RR            |
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|                     |                        |              | <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> |               |
|                     |                        |              |   |               |

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