

Interaction Between Mobile Plant And Pedestrians Risk Assessment

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

THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THIS 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	
								4. Engineering	
								5. Administrative	
								6. PPE	
Consequence Scale:								Always document why a lower-order control is accepted if elimination or substitution is not reasonably practicable.	
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				
								<i>aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.</i>	

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 Assessment	Uneven ground, Limited visibility	3H	<p>Conduct a pre-start site inspection to identify uneven ground</p> <p>Ensure proper signage is installed to warn of uneven surfaces</p> <p>Implement adequate lighting for work areas</p> <p>Minimise obstructions to ensure clear visibility</p> <p>Use barricades to designate safe pedestrian pathways</p> <p>Ensure adequate training for workers on site conditions</p> <p>Provide high-visibility clothing for workers</p> <p>Maintain clear communication procedures for location safety</p> <p>Conduct regular site reassessment for changing conditions</p> <p>Display signs indicating pedestrian routes and plant operation zones</p>	2M
2. Traffic Management Planning	Vehicle congestion, Inadequate traffic flow	4M	<p>Develop and implement a traffic management plan</p> <p>Designate separate routes for vehicles and pedestrians</p> <p>Utilise barriers or cones to guide vehicle traffic</p> <p>Schedule vehicle movements during non-peak times</p> <p>Implement one-way traffic systems where feasible</p> <p>Conduct traffic flow assessment regularly</p> <p>Employ traffic controllers to manage high-risk areas</p> <p>Install appropriate signage and road markings</p> <p>Ensure effective communication systems for vehicle operators</p> <p>Regularly review and update the traffic management plan</p>	2M
3. Equipment Inspection and Maintenance	Equipment failure, Brake malfunctions	3H	<p>Conduct regular maintenance checks on all mobile plant</p> <p>Maintain records of inspections and repairs</p> <p>Ensure all safety systems and brakes are fully operational</p> <p>Use only qualified personnel for maintenance tasks</p> <p>Implement a pre-start checklist for equipment operators</p> <p>Ensure rapid response procedures for equipment failures</p> <p>Encourage reporting of any equipment faults</p> <p>Use preventive maintenance to identify potential failures</p>	1L

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			Audit maintenance procedures periodically Ensure all plant and machinery have been serviced as per schedule	
4. Operator Training and Competency	Inexperienced operators, Inadequate skill level	4A	[REDACTED]	2M
5. Communication Protocols	Communication breakdown, Misinterpretation of signals	3H	[REDACTED]	2M
6. Work Area Demarcation	Unmarked zones, Inappropriate area access	4A	[REDACTED]	1L

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7. Incident Response Procedures	Delayed response, Inadequate emergency plan	4A		2M
8. Fatigue Management	Operator fatigue, Distraction, Alertness	3H		2M
9. Environmental Conditions Assessment	Adverse weather, Poor lighting	3H		1L

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10. PPE Implementation	Inadequate protective equipment, Improper PPE use	3H		2M
11. Pedestrian Awareness	Uninformed pedestrians, Unexpected pedestrian movements	4A		1L
12. Signage and Marking	Inadequate visibility, Misleading signage	3H		1L

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13. Technology and Automation Use	System failures, Inappropriate reliance on technology	4A		2M
14. Night Operations Management	Inadequate lighting, Increased fatigue risk	3H		2M
15. Emergency Access Routes	Blocked access, Delayed emergency response	4A		2M

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16. Climate Adaptation Strategies	Extreme heat, Severe storms	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	2M
17. Contractor Management	Non-compliance with site rules, Inadequate training	4A	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	2M
18. Plant Operational Limits	Overloading, Operation beyond specifications	3H	<div></div> <div></div> <div></div>	1L

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19. Weather Monitoring Systems	Unpredictable weather, Delayed reaction to weather changes	4A		2M
20. Monitoring and Review	Non-detection of hazards, Ineffective control measures	3H		1L

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.