

Tackle Machinery Rollovers 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:

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:

1. **Eliminate**
2. 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. Preparation	Incorrect PPE usage, Distraction	3H	<ul style="list-style-type: none"> Ensure all workers are fitted with appropriate PPE Brief workers on potential distractions Implement a buddy system for equipment checks Conduct preliminary hazard assessment Staff training on machinery operations Supervise inexperienced workers Inspect surroundings for obstructions and distractions Ensure workers are well-rested before starting Communicate clear objectives of the task Verify communication devices are operational 	2M
2. Machinery Inspection	Equipment malfunction, Mechanical failure	4H	<ul style="list-style-type: none"> Schedule regular maintenance checks Employ qualified personnel for inspections Keep detailed maintenance records Replace worn parts immediately Verify all safety guards are in place Conduct testing on machinery before use Use manufacturer's checklist for inspections Develop procedures for reporting faults Ensure availability of necessary spare parts Follow lock-out/tag-out procedures when appropriate 	2M
3. Site Clearance	Debris, Uneven ground	3H	<ul style="list-style-type: none"> Conduct site walkthrough to identify debris Mark areas of uneven ground Remove or mark nearby hazards Ensure site is well lit Use machinery designed for uneven terrain Clear communication of hazardous areas Use of barriers to restrict access to cleared areas Delegate specific roles to team members 	2M

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			Utilize GPS technology for precise navigation Implement emergency response plan	
4. Planning Pathway	Obstructions, Poor route planning	3H	[REDACTED]	2M
5. Operator Training	Inexperience, Complacency	3H	[REDACTED]	1L
6. Communication Protocols	Lack of communication, Misinterpretation	3H	[REDACTED]	2M

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7. Working in Adverse Weather	Rain, High winds	4A		3H
8. Loading and Unloading Machinery	Overloading, Securing Loads	4A		3H
9. Utilising Safety Guards and Devices	Guard removal, Inoperable safety devices	3H		2M

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10. Establishing Emergency Protocols	Delayed response, Unfamiliar procedures	4A		2M
11. Ground Work and Levelling	Uneven terrain, Improper gradients	3H		2M
12. Working Near Water Bodies	Drowning, Slippery surfaces	4A		3H

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13. Night Operations	Reduced visibility, Fatigue	4A		2M
14. Operating on Slopes	Rollovers, Lack of traction	4A		3H
15. Monitoring and Feedback	Unreported issues, Complacency	3H		1L

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			<div style="background-color: black; height: 10px; width: 60%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 70%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 80%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 90%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 85%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 75%; margin-bottom: 2px;"></div>	
16. Maintenance of Pathways	Erosion, Obstructed routes	3H	<div style="background-color: black; height: 10px; width: 70%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 80%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 90%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 85%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 75%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 65%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 70%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 80%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 90%; margin-bottom: 2px;"></div> <div style="background-color: black; height: 10px; width: 85%; margin-bottom: 2px;"></div>	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.