

Grapple Truck 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. Conduct Site Survey	Uneven ground, Obstructed pathways	3H	<ul style="list-style-type: none"> - Conduct a thorough survey of the site terrain - Mark and barricade uneven and hazardous areas - Use proper signage to indicate potential hazards - Ensure clear communication with site workers about site conditions - Evaluate and record environmental conditions - Check and test radio communication equipment - Prepare detailed site maps - Verify the presence of overhead obstructions - Establish an exclusion zone - Provide site induction for the team 	2M
2. Equipment Inspection	Equipment malfunction, Leaks	3H	<ul style="list-style-type: none"> - Conduct a daily pre-start inspection of the grapple truck - Train operators on equipment check protocols - Ensure regular maintenance is performed per manufacturer's schedule - Check hydraulic fluid levels and inspect for leaks - Maintain a record of inspections and maintenance - Test all safety and operational systems - Use only qualified technicians for maintenance - Implement an equipment lockout/tagout system - Double-check couplings and securing mechanisms - Employ checklists for thorough inspections 	2M
3. Operator Training	Improper operation, Lack of awareness	4A	<ul style="list-style-type: none"> - Provide comprehensive operator training programs - Issue up-to-date operator manuals - Conduct regular skill assessments - Use simulators for complex operation scenarios - Hold refresher courses annually - Implement a buddy system for novice operators - Clearly define roles and responsibilities - Encourage continuous professional development 	2M

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			<ul style="list-style-type: none"> - Conduct spot checks and audits - Maintain a competency certification program 	
4. Load Securing	Load shifting, Overloading	4A	<ul style="list-style-type: none"> - Use proper tie-down technique - Use proper tie-down equipment - Use proper tie-down procedure - Use proper tie-down equipment - Use proper tie-down procedure - Use proper tie-down equipment - Use proper tie-down procedure - Use proper tie-down equipment - Use proper tie-down procedure - Use proper tie-down equipment 	2M
5. Lifting Operations	Crushing injuries, Load swings	4A	<ul style="list-style-type: none"> - Use proper lifting technique - Use proper lifting equipment - Use proper lifting procedure - Use proper lifting equipment - Use proper lifting procedure - Use proper lifting equipment - Use proper lifting procedure - Use proper lifting equipment - Use proper lifting procedure - Use proper lifting equipment 	2M
6. Traffic Management	Vehicle collisions, Pedestrian impact	3H	<ul style="list-style-type: none"> - Use proper traffic management technique - Use proper traffic management equipment - Use proper traffic management procedure - Use proper traffic management equipment - Use proper traffic management procedure - Use proper traffic management equipment - Use proper traffic management procedure - Use proper traffic management equipment - Use proper traffic management procedure - Use proper traffic management equipment 	2M

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7. Emergency Procedures	Fire, Medical emergency	3H		2M
8. Environmental Monitoring	Dust emission, Noise	2M		1L
9. Equipment Maintenance	Mechanical failure, Hydraulic faults	3H		2M

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10. Decommissioning	Contaminated waste, Structural collapse	3H		1L
11. Fuel Management	Spillage, Fire risk	3H		2M
12. Health Surveillance	Fatigue, Exposure to hazardous substances	3H		2M

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13. Communication Systems	Communication breakdown, Signal interference	2M		1L
14. Work Environment Survey	Weather changes, Visibility issues	2M		1L
15. Client and Community Engagement	Public relations issues, Legal disputes	2M		1L

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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