

Loading and Unloading Plant on Prime Mover Risk Assessment

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

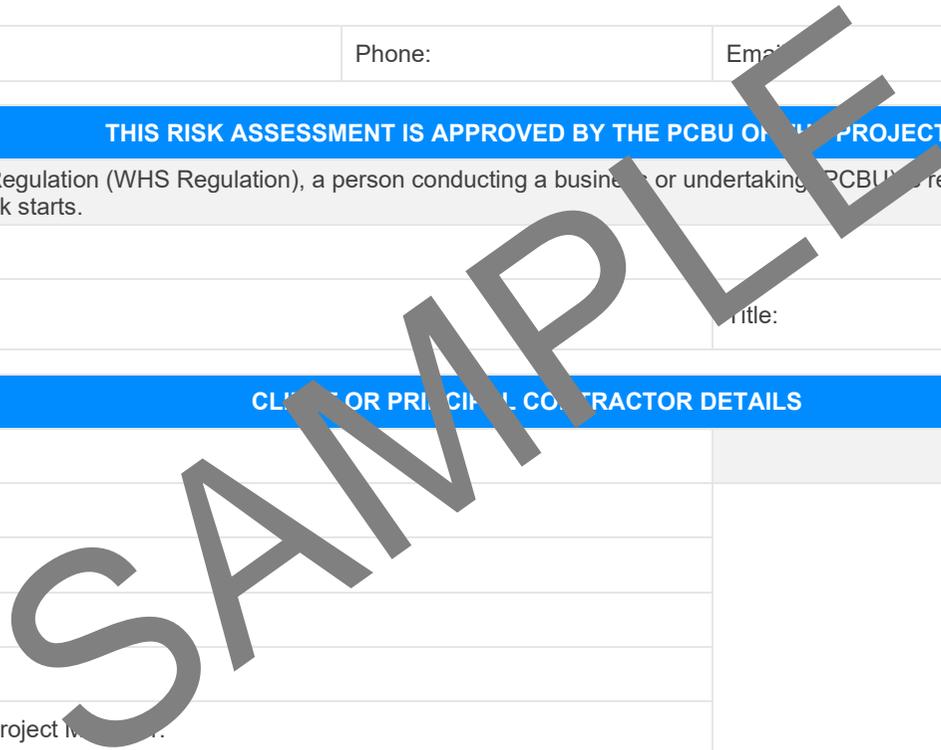
THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THIS PROJECT

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	Lack of awareness, Incorrect PPE	3H	<ul style="list-style-type: none"> - Conduct a pre-task briefing and distribute the task checklist. - Ensure all workers have appropriate PPE including high visibility clothing, helmets, and gloves. - Review loading and unloading procedures with the team. - Check communication devices are functional for coordination. - Verify weather conditions meet safety standards for operation. - Confirm the presence of certified personnel for supervision. - Establish and mark safety zones around the working area. - Inspect the equipment and vehicles thoroughly before use. - Ensure spill kits are readily available in case of hazardous material spill. - Display clear instructions and signage around the area. 	2M
2. Inspect Prime Mover	Mechanical failure, Oil leaks	3H	<ul style="list-style-type: none"> - Perform a comprehensive inspection checklist for the prime mover. - Verify recent maintenance records to ensure compliance. - Check oil levels and look for signs of leakage. - Report any signs of wear or damage to maintenance personnel immediately. - Ensure emergency shutoff systems are functioning. - Confirm battery levels and test for power sufficiency. - Secure loose parts or components that may pose hazards. - Train staff on identifying and responding to mechanical issues. - Issue tools for minor on-site adjustments as needed. - Maintain a log of inspections for accountability. 	2M
3. Equipment Setup	Improper alignment, Unstable base	3H	<ul style="list-style-type: none"> - Emphasise the importance of following the setup instructions precisely. - Use alignment markers to guide setup and ensure correct positioning. - Employ stabilisers or additional supports if necessary. - Check that the ground or base is solid and even to support equipment weight. - Perform a stability check by applying slight pressure and observing movement. - Have an experienced worker oversee the setup process. - Ensure no other equipment or personnel are in the immediate vicinity during setup. - Utilise signal persons to communicate adjustments needed during setup. 	1L

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			<ul style="list-style-type: none"> - Install barriers around setup area to mitigate unauthorised access. - Incorporate wireless technology to assist in alignment verification. 	
4. Load Preparation	Incorrect load balancing, Poor visibility	4A	<p>[REDACTED]</p>	2M
5. Loading Equipment	Crushing hazards equipment malfunction	4A	<p>[REDACTED]</p>	2M
6. Securing Load	Load tipping, Unstable cargo	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>	1L

SAMPLE

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
			[REDACTED]	
7. Transport to Unloading Site	Road conditions, Traffic congestion	3H	[REDACTED]	2M
8. Unloading Preparation	Unstable surface, Poor environmental conditions	3H	[REDACTED]	2M
9. Unloading Equipment	Equipment slipping, Struck by load	4A	[REDACTED]	2M

SAMPLE

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			[REDACTED]	
10. Storage of Equipment	Improper stacking, Storage area hazards	3H	[REDACTED]	2M
11. Final Checks and Handover	Documentation errors, Missed faults	3H	[REDACTED]	1L

SAMPLE

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			[REDACTED]	
12. Equipment Dismantle	Inadequate dismantle procedures, Falling components	4A	[REDACTED]	2M
13. Site Clean-Up	Residual waste, Unaddressed spill	3H	[REDACTED]	1L
14. Equipment and Vehicle Area Final Inspection	Missed maintenance issues, Improper equipment storage	3H	[REDACTED]	1L

SAMPLE

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			[REDACTED]	
15. Debriefing and Feedback Collection	Insufficient communication, Unreported incidents	2H	[REDACTED]	1L
16. Reporting and Documentation	Inaccurate reporting, Non-compliance with regulations	3H	[REDACTED]	1L

SAMPLE

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			<div style="background-color: black; height: 15px; width: 100%;"></div> <div style="background-color: black; height: 15px; width: 95%;"></div> <div style="background-color: black; height: 15px; width: 90%;"></div> <div style="background-color: black; height: 15px; width: 85%;"></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 FOR 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/lis-res-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) Regulation 2011
 Legislation NT: <https://worksafe.nt.gov.au/laws-and-compliance/work-places-and-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>

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/work-places/codes-of-practice#COPs>

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

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.

