

Emergency Descent From Crane 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. Preparation	Inadequate planning, Lack of emergency equipment	3H	<ul style="list-style-type: none"> - Develop a comprehensive emergency descent plan. - Conduct risk assessments prior to descent procedures. - Ensure availability of emergency descent equipment. - Verify inspection and maintenance records of equipment. - Provide training on emergency descent procedures. - Review emergency communication protocols. - Establish a workspace free of unnecessary obstacles. - Ensure presence of trained first aid personnel on site. - Verify all personnel are trained to conduct the operation. - Coordinate with emergency services for potential support. 	2M
2. Assess Weather Conditions	High winds, Poor visibility	3H	<ul style="list-style-type: none"> - Review weather forecasts before each descent. - Install wind measurements on the crane. - Postpone operations if wind exceeds safe limits. - Implement a visibility assessment protocol. - Ensure adequate lighting on and around the crane. - Provide personnel with weather-appropriate gear. - Establish a weather monitoring policy. - Utilize spotters to monitor conditions in real-time. - Maintain updated communication with weather services. - Develop contingency plans for sudden weather changes. 	1L
3. Equipment Inspection	Equipment malfunction, Structural failure	4A	<ul style="list-style-type: none"> - Conduct a thorough inspection of all descent equipment. - Perform a structural integrity check of the crane. - Implement a maintenance schedule adhering to manufacturer guidelines. - Utilize a checklist for equipment verification. - Train workers in identifying signs of equipment failure. - Store equipment in designated safe areas when not in use. - Regularly calibrate and test emergency descent equipment. - Ensure access to spare parts and repair tools. 	2M

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			<ul style="list-style-type: none"> - Record and log inspection results for accountability. - Arrange for a certified inspector for equipment audits 	
4. Worker Training	Lack of knowledge, Improper use of equipment	3H	<ul style="list-style-type: none"> - Provide training for all workers on the correct use of equipment. - Ensure that all workers are aware of the correct use of equipment. - Provide training on the correct use of equipment. - Ensure that all workers are aware of the correct use of equipment. - Provide training on the correct use of equipment. - Ensure that all workers are aware of the correct use of equipment. - Provide training on the correct use of equipment. - Ensure that all workers are aware of the correct use of equipment. - Provide training on the correct use of equipment. - Ensure that all workers are aware of the correct use of equipment. 	1L
5. Communication Protocols	Communication failure, Miscommunication	3H	<ul style="list-style-type: none"> - Establish clear communication protocols. - Ensure that all workers are aware of the correct use of equipment. - Provide training on the correct use of equipment. - Ensure that all workers are aware of the correct use of equipment. - Provide training on the correct use of equipment. - Ensure that all workers are aware of the correct use of equipment. - Provide training on the correct use of equipment. - Ensure that all workers are aware of the correct use of equipment. - Provide training on the correct use of equipment. - Ensure that all workers are aware of the correct use of equipment. 	1L
6. PPE Utilisation	Inadequate PPE, Improper use of PPE	2M	<ul style="list-style-type: none"> - Provide training on the correct use of PPE. - Ensure that all workers are aware of the correct use of PPE. - Provide training on the correct use of PPE. - Ensure that all workers are aware of the correct use of PPE. - Provide training on the correct use of PPE. - Ensure that all workers are aware of the correct use of PPE. - Provide training on the correct use of PPE. - Ensure that all workers are aware of the correct use of PPE. - Provide training on the correct use of PPE. - Ensure that all workers are aware of the correct use of PPE. 	1L

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7. Emergency Descent Execution	Operator error, Equipment entanglement	4A		2M
8. Post-Descent Procedures	Failure to secure equipment, Injury assessment oversight	2M		1L
9. Health Monitoring	Delayed injury identification, Exposure to physical stress	2M		1L

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10. Review and Update Procedures	Outdated processes, Lack of feedback implementation	3H		1L
11. Site Access and Egress Control	Unauthorized access, Insufficient egress points	3H		1L
12. Fall Protection Systems	Inadequate fall protection, System failure	4A		2M

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13. Incident Reporting	Delays in reporting, Incomplete incident analysis	3H		1L
14. Safety Signage	Inadequate signage, Poor visibility signs	2M		1L
15. Mental Health Support	Psychological stress, Trauma response	2M		1L

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16. Technology and Equipment Updates	Outdated technology, Inadequate equipment	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	1L
17. Legal Compliance	Non-compliance with legislation, Inadequate documentation	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></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.