

Climbing Into Cranes Risk Assessment

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

THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THE 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 the 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 training, failure to check equipment	3H	<ul style="list-style-type: none"> - Ensure all workers have completed accredited training - Conduct a pre-operation check of all equipment - Establish a clear communication protocol - Provide and enforce use of appropriate PPE - Implement spot-checks to ensure readiness - Review emergency procedures before starting - Confirm site-specific hazards with the team - Ensure familiarity with crane specifications - Provide refresher training where necessary - Maintain checklists for preparation steps 	1L
2. Approach Crane	tripping, slipping	4M	<ul style="list-style-type: none"> - Keep the area around crane clear from obstacles - Ensure all personnel wear non-slip shoes - Use aids like cones or markings to guide paths - Conduct regular inspections for oil or water spills - Ensure adequate lighting for all paths - Set up temporary barriers during adverse weather - Communicate path changes to all personnel - Verify area is clear of unnecessary personnel - Use designated walkways whenever possible - Review path integrity regularly 	2M
3. Ascend Crane	falls from height, contact with moving parts	4A	<ul style="list-style-type: none"> - Use harnesses and fall arrest systems - Insist on three points of contact rule - Provide adequate training on safe climbing techniques - Regularly inspect ladders and steps for integrity - Install guardrails where possible - Conduct daily inspections of climbing equipment - Implement a buddy system to monitor ascent - Post warning signs at critical points 	2M

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			<ul style="list-style-type: none"> - Control access to climbing areas - Engage a spotter to assist 	
4. Enter Cab	striking against hard surfaces, uneven flooring	3H	<ul style="list-style-type: none"> - Control access to climbing areas - Engage a spotter to assist - Ensure proper seating and secure harness - Verify communication system functionality - Perform pre-trip inspection - Use proper climbing techniques - Maintain clear communication with spotter - Avoid distractions while operating - Follow established safety protocols - Use fall protection equipment - Ensure proper use of tools and equipment - Maintain proper posture and balance - Avoid overexertion - Use handrails and ladders safely - Keep work area clear of obstacles - Perform regular maintenance checks - Use proper lifting techniques - Avoid working in adverse weather conditions - Ensure proper use of personal protective equipment (PPE) - Follow manufacturer instructions for equipment - Maintain proper communication with team - Use proper climbing techniques - Avoid distractions while operating - Follow established safety protocols - Use fall protection equipment - Ensure proper use of tools and equipment - Maintain proper posture and balance - Avoid overexertion - Use handrails and ladders safely - Keep work area clear of obstacles - Perform regular maintenance checks - Use proper lifting techniques - Avoid working in adverse weather conditions - Ensure proper use of personal protective equipment (PPE) - Follow manufacturer instructions for equipment - Maintain proper communication with team 	1L
5. Secure Position	improper seating, failure to secure harness	3H	<ul style="list-style-type: none"> - Control access to climbing areas - Engage a spotter to assist - Ensure proper seating and secure harness - Verify communication system functionality - Perform pre-trip inspection - Use proper climbing techniques - Maintain clear communication with spotter - Avoid distractions while operating - Follow established safety protocols - Use fall protection equipment - Ensure proper use of tools and equipment - Maintain proper posture and balance - Avoid overexertion - Use handrails and ladders safely - Keep work area clear of obstacles - Perform regular maintenance checks - Use proper lifting techniques - Avoid working in adverse weather conditions - Ensure proper use of personal protective equipment (PPE) - Follow manufacturer instructions for equipment - Maintain proper communication with team - Use proper climbing techniques - Avoid distractions while operating - Follow established safety protocols - Use fall protection equipment - Ensure proper use of tools and equipment - Maintain proper posture and balance - Avoid overexertion - Use handrails and ladders safely - Keep work area clear of obstacles - Perform regular maintenance checks - Use proper lifting techniques - Avoid working in adverse weather conditions - Ensure proper use of personal protective equipment (PPE) - Follow manufacturer instructions for equipment - Maintain proper communication with team 	2M
6. Conduct Communication Check	communication breakdown, radio interference	4A	<ul style="list-style-type: none"> - Control access to climbing areas - Engage a spotter to assist - Ensure proper seating and secure harness - Verify communication system functionality - Perform pre-trip inspection - Use proper climbing techniques - Maintain clear communication with spotter - Avoid distractions while operating - Follow established safety protocols - Use fall protection equipment - Ensure proper use of tools and equipment - Maintain proper posture and balance - Avoid overexertion - Use handrails and ladders safely - Keep work area clear of obstacles - Perform regular maintenance checks - Use proper lifting techniques - Avoid working in adverse weather conditions - Ensure proper use of personal protective equipment (PPE) - Follow manufacturer instructions for equipment - Maintain proper communication with team - Use proper climbing techniques - Avoid distractions while operating - Follow established safety protocols - Use fall protection equipment - Ensure proper use of tools and equipment - Maintain proper posture and balance - Avoid overexertion - Use handrails and ladders safely - Keep work area clear of obstacles - Perform regular maintenance checks - Use proper lifting techniques - Avoid working in adverse weather conditions - Ensure proper use of personal protective equipment (PPE) - Follow manufacturer instructions for equipment - Maintain proper communication with team 	2M

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7. Initiate Crane Movements	unexpected machinery movement, visibility issues	4A		2M
8. Monitoring Load	load imbalance, equipment failure	4A		1L
9. Adjusting Loads	misjudgment of load, pinching points	4A		2M

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10. De-energise Crane	electrocution, residual energy release	3H		1L
11. Descend Crane	rushing descent, equipment damage	3H		2M
12. Final Inspection	missing defects, documentation errors	2M		1L

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13. Debrief	miscommunication, inadequate record keeping	2M		1L
14. Equipment Storage	incorrect storage, equipment deterioration	2M		1L
15. Maintenance Scheduling	schedule delays, inadequate maintenance	3H		1L

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			<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	
16. Review of Operations	lack of follow-up, overlooking improvements	2M	<div></div> <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.