

Tower Crane	Assembly Dismantling Ris	k Assessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Eme	
THIS RISK ASSESS	MENT IS APPROVED BY THE PC	BU OF PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts.	person conducting a busine or un	ndertaking PCBU required to ensu	ire that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CL		DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project N.			



RISK MATRIX								
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE MA	JOR CATASTROPH			HIERARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH		4 4 JTE ACUTE	SCORE	ACTION	Elimination Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	U U U U U U U U U U U U U U U U U U U	4 4 JTE ACUTE	4A ACUTE	DO NOT PROCEED	Substitution Replace the hazard. Isolation	
POSSIBLE	1 LOW	2 MODERATE		4 JTE ACUTE	3H HIGH	Rev before work art	Isolate People from the hazard Engineering Isolate the	
UNLIKELY	1 LOW	1 LOW		3 Z GH ACU E	MC RATE	Ensure control measures in place.	Activité istrativ e Chang	
RARE	1 LOW	1 LOW		3 GH H. 1	1L LOW	Monitor and keep records.	PP	
Risk Rating & Required Action:         4A       Stop work. The risk is intolerable, cominate the hazard predesign the activity before proceeding. A Safe Work Method Statement (SWMS) or higher-level authorisation is required.         3H       Review and approve additional controls to consist task parts. Senior supervisor sign-off needed.         2M       Ensure all nominated controls are imprace and efficience. Proceed with caution; monitor conditions.         1L       Proceed, following standard operating procedures Monitor and keep records.         Consequence Scale:						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		
Consequence		injury/illness)	Project / Ass	Significant regula	pliance / Reputat		Always document why a lower-order control is accepted if	
Catastrophic Major	Fatality or perma Serious injury/illr days)			wn prosecution	mprovement notice; major media coverage al		elimination or substitution is not reasonably practicable. aligned with Safe Work Australia's Managing the risk of fatigue at	
Moderate	Medical-treatmen	nt injury; lost-tim	e > 1 moderate dela	y Minor breach; ad	Winor breach; adverse client comment		work (2023) and ISO 45001:2018 clauses 6–8.	
Minor	First-aid only, no	lost time	negligible dela	y Isolated non-con	formance			
			no schedule	Deviation caught and corrected on site				



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	Falling Objects, Unauthorised Access	ЗН	<ul> <li>Conduct site induction for all staff.</li> <li>Implement exclusion zones around the crane use.</li> <li>Use hard hats for all personnel in the vicinity.</li> <li>Display warning signs prominently.</li> <li>Ensure only authorised performed are in the area.</li> <li>Regularly inspect the area for intential falling hazares.</li> <li>Use spotters during operations.</li> <li>Secure local materials the could be displane.</li> <li>Maintain clean mmunication protocol.</li> <li>Provide relequation anting for visibility.</li> </ul>	2M
2. Unloading Crane Components	Crush Injuries, Manual tracking Injuries	2	<ul> <li>Use michannel aidstruunloading.</li> <li>Use provide the stacking of unloaded components.</li> <li>Ensure table stacking of unloaded components.</li> <li>Se appropriate PPE including gloves and boots.</li> <li>Conduct a manual handling risk assessment.</li> <li>Provide training on correct lifting techniques.</li> <li>Limit manual lifting to less than 20kg per person.</li> <li>Use team lifting techniques where necessary.</li> <li>Keep work area clear of obstructions and tripping hazards.</li> <li>Establish communication signals between workers handling components.</li> </ul>	2M
3. Assembling the Base	Pinch Points, Structural Collapse	ЗН	<ul> <li>Conduct thorough inspections of all components before assembly.</li> <li>Use certified, properly calibrated tools.</li> <li>Implement lock-out/tag-out procedures where applicable.</li> <li>Assign a competent supervisor to oversee assembly.</li> <li>Set up exclusion zones around the base.</li> <li>Follow manufacturer assembly instructions rigorously.</li> <li>Install temporary supports to provide stability during assembly.</li> <li>Ensure ground conditions are suitable and stable.</li> </ul>	2M



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			- Use personnel with adequate experience in tower crane assembly.	
			- Conduct a safety briefing before starting assembly.	
4. Erecting the Mast	High Winds, Overhead Power Lines	4A		2М
5. Assembling the Jib	Overturning Cran Entanglement	44		2M
6. Installing the Counterweights	Load Shift, Back Injuries	ЗН		2M

Version 2.5



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7. Connecting Power Supply	Electrical Shock, Fire Risk	ЗН		2M
8. System Testing	Operational Malfunction and En	IA		2M
9. Crane Operations Calibration	Load Swing, Uncontrolled Dropping	4A		2M

Version 2.5

Review #



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10. Dismantling Preparations	Collapse during Dismantle, Improper Sequencing	4A		2М
11. Lowering the Mast	Falling Components, Cruck Instructy	4A		2M
12. Removing Counterweights	Load Imbalance, Back Strain	ЗН		2M

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13. Disassembling the Jib	Pinch Injuries, Structural Shift	ЗН		1L
14. Final Site Inspection	Trip Hazards, Sharp Objects	2М		1L
15. Crane Load Testing	Structural Failure, Control System Malfunction	4A		2M

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#### **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 LEGISL	ATIVE REFERENCES ANY STATE AT 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 au Safety Act 204 Occupational Health and affety or gulations 2017 Legis from VIC: https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- oular occupational-health-and-safety-act-and- occupational-health-act-act-and- occupational-health-act-act-act-act-act-act-act-act-act-act						
New South Wales         Work Health and Safety Act 2011         Work Health and Safety Regulations 2017         Legislation NSW: <a href="https://www.safework.nsw.gov.au/legal-obligations/legislative">https://www.safework.nsw.gov.au/legal-obligations/legislative</a> Codes of Practice NSW: <a href="https://www.safework.nsw.gov.au/resource-library/lis">https://www.safework.nsw.gov.au/legal-obligations/legislative</a>	Western Australia Work Health and Safety Act 2020 Work Health and Safety Regulations 2022 Legislation Western Australia: <u>https://www.commerce.wa.gov.au/worksafe/legislation</u> Codes of Practice WA: <u>https://www.commerce.wa.gov.au/worksafe/codes-practice</u>						
Northern Territory Work Health and Safety (National Uniform Legislation) Act 2011 Work Health and Safety (National Uniform Legislation) Regulation 2015 Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/workplace-serve-laws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/formediateserve-laws</u>	Safe Work Australia Links Law and Regulation (All States): <u>https://www.safeworkaustralia.gov.au/law-and-regulation</u> Model Codes of Practice: <u>https://www.safeworkaustralia.gov.au/resources-publications/model-</u> <u>codes-of-practice</u>						
South Australia Work Health and Safety Act 2012 (SA) Work Health and Safety Regulations 2012 (SA) Legislation for SA: <u>https://www.safework.sa.gov.au/resources/legislation</u> Codes of Practice for SA: <u>https://www.safework.sa.gov.au/work_aces/codes-of-practice#COPs</u>	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						
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: <a href="https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations">https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations</a> Codes of Practice for TAS: <a href="https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice">https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice</a>	<ul> <li>First aid in the workplace</li> <li>Managing the risk of falls at workplaces</li> <li>Hazardous manual tasks</li> <li>Managing the risk of falls in housing construction</li> <li>Managing electrical risks in the workplace</li> <li>Demolition work</li> <li>Excavation work</li> <li>Work health and safety consultation, cooperation and coordination</li> </ul>						
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.	<ul> <li>Managing the work environment and facilities</li> <li>How to manage work health and safety risks</li> <li>Managing risks of plant in the workplace</li> <li>Construction work</li> </ul>						