

## Round Column Formwork 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			<b>Elimination</b> Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	<b>Substitution</b> 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.	<b>Engineering</b> Isolate the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	Monitor and keep records.	<b>Administrative</b> Change	
								<b>PPE</b>	
<b>Risk Rating &amp; Required Action:</b>								<b>Notes on Hierarchy of Controls:</b>	
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. <b>Eliminate</b>	
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	
<b>Consequence Scale:</b>								Always document <b>why</b> 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	Slips and trips, Incorrect PPE	3H	<ul style="list-style-type: none"> <li>- Ensure all personnel are trained in safety protocols</li> <li>- Verify PPE compliance before entering the site</li> <li>- Conduct a site inspection for any potential slip hazards</li> <li>- Clearly mark any wet areas</li> <li>- Enforce wearing of non-slip footwear</li> <li>- Display safety signage prominently</li> <li>- Prepare an emergency response plan</li> <li>- Use anti-slip coatings on walkways</li> <li>- Conduct regular site cleanliness audits</li> <li>- Ensure adequate lighting</li> </ul>	2M
2. Setting Up Base Plates	Manual handling injuries, Falling objects	3H	<ul style="list-style-type: none"> <li>- Use mechanical aids for lifting</li> <li>- Train workers in correct manual handling techniques</li> <li>- Ensure base plates are secured properly</li> <li>- Conduct regular equipment checks</li> <li>- Demarcate exclusion zones</li> <li>- Wear hard hats at all times</li> <li>- Use lifting equipment where possible</li> <li>- Employ spotters during lifts</li> <li>- Implement a tag-in/tag-out system</li> <li>- Schedule regular breaks to prevent fatigue</li> </ul>	2M
3. Erecting Formwork Supports	Structural collapse, Falls from height	4A	<ul style="list-style-type: none"> <li>- Ensure all formwork materials are within specifications</li> <li>- Conduct a stability analysis</li> <li>- Provide working-at-height training</li> <li>- Use fall arrest systems</li> <li>- Conduct scaffold inspections</li> <li>- Limit worker access to elevated areas</li> <li>- Utilise ladders and scaffolds properly</li> <li>- Ensure workers use safety harnesses</li> </ul>	2M

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			<ul style="list-style-type: none"> <li>- Install guardrails on all elevated platforms</li> <li>- Regularly review and update safety procedures</li> </ul>	
4. Assembling Formwork Panels	Pinching injuries, Repetitive strain injuries	3H	<ul style="list-style-type: none"> <li>- Use proper lifting techniques</li> <li>- Wear appropriate PPE (gloves, safety glasses)</li> <li>- Ensure work area is clear of obstacles</li> <li>- Use tools designed for the task</li> <li>- Take regular breaks to stretch and rest</li> <li>- Rotate tasks to avoid repetitive strain</li> <li>- Maintain good posture</li> <li>- Use mechanical aids where possible</li> <li>- Ensure adequate lighting</li> <li>- Communicate with team members</li> <li>- Follow safe work practices</li> <li>- Inspect equipment before use</li> <li>- Keep work surfaces clean and dry</li> <li>- Use proper footing</li> <li>- Avoid overexertion</li> <li>- Seek medical attention if injured</li> </ul>	1L
5. Inspecting Formwork	Inadequate inspection, Undetected damage	3H	<ul style="list-style-type: none"> <li>- Conduct thorough visual inspection</li> <li>- Use inspection checklist</li> <li>- Check for cracks, holes, and other defects</li> <li>- Measure dimensions to ensure accuracy</li> <li>- Document findings and report issues</li> <li>- Stop work if significant damage is found</li> <li>- Repair or replace damaged components</li> <li>- Re-inspect after repairs</li> <li>- Communicate findings to the team</li> <li>- Follow up on unresolved issues</li> <li>- Maintain inspection records</li> <li>- Use appropriate safety gear</li> <li>- Stay alert and focused</li> <li>- Avoid distractions</li> <li>- Work in a safe manner</li> <li>- Report any safety concerns</li> </ul>	1L
6. Placing Reinforcements	Struck by reinforcement, Ergonomic strain	3H	<ul style="list-style-type: none"> <li>- Use proper lifting techniques</li> <li>- Wear appropriate PPE (hard hat, safety glasses, gloves)</li> <li>- Ensure work area is clear of obstacles</li> <li>- Use tools designed for the task</li> <li>- Take regular breaks to stretch and rest</li> <li>- Rotate tasks to avoid repetitive strain</li> <li>- Maintain good posture</li> <li>- Use mechanical aids where possible</li> <li>- Ensure adequate lighting</li> <li>- Communicate with team members</li> <li>- Follow safe work practices</li> <li>- Inspect equipment before use</li> <li>- Keep work surfaces clean and dry</li> <li>- Use proper footing</li> <li>- Avoid overexertion</li> <li>- Seek medical attention if injured</li> </ul>	2M

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7. Pouring Concrete	Chemical exposure, Overexertion	4A		3H
8. Vibration of Concrete	Noise exposure, Hand-arm vibration syndrome	3H		2M
9. Curing Concrete	Slip hazards from curing compounds, Chemical burns	3H		1L

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			<div></div> <div></div> <div></div> <div></div>	
10. Stripping Formwork	Collapse of structure, Falling debris	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	2M
11. Cleaning and Maintenance	Chemical exposure, Slips and trips	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <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
12. Site Demobilisation	Vehicle collision, Trip hazards	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	1L

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13. Transportation of Materials	Load shift, Manual handling injuries	3H		2M
14. Tool and Equipment Storage	Unsecured tools, Inadequate storage procedures	3H		1L
15. Post-Project Review	Inadequate documentation, Missed learnings	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>

### 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.