

Cold Weathe	er Concreting Practices Ris	k Assessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Eme	
THIS RISK ASSESS	MENT IS APPROVED BY THE PC		
Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts.	person conducting a busine or ur	ndertaking PCBU required to ensu	ire that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CLY		DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project New			



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 in course task parts. Senior supervisor sign-off needed.         2M       Ensure all nominated controls are imprace and efficience of which 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	elimination or substitution is not reasonab		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	work (2023) and ISO 45001:2018 clauses 6–8.			
Minor	First-aid only, no	lost time	negligible dela	y Isolated non-con	formance			
Insignificant No injury no schedule impact 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	Cold surfaces, Frozen equipment	ЗН	<ul> <li>Conduct a pre-work inspection to identify areas affected by frost or ice</li> <li>Ensure workers are wearing adequate warm conting and PPE</li> <li>Use insulated covers on equipment whether assible</li> <li>Prepare a safe environment by removing ice order ow from the working area</li> <li>Inform workers of possible bizards due to cold unditions</li> <li>Ensure all workers are trained a cold weather providure</li> <li>Have a first aid bizard cold warm of the warmest part of the day</li> <li>Schedule on eations to take advance of the warmest part of the day</li> <li>Limit possible bizards worker and cold conditions</li> <li>Secure and way on the prevent slips</li> </ul>	1L
2. Transportation of Materials	Slick surfaces, Materials and	2	<ul> <li>Use whicles mulpperfor cold conditions</li> <li>usure hansponttion routes are free from ice and snow</li> <li>Covernmerials to protect them from weather elements</li> <li>nemove buildup of ice on vehicles before moving</li> <li>Pwe-check vehicle heaters are functioning properly</li> <li>Employ anti-skid systems where necessary</li> <li>Conduct drive route risk assessment under cold conditions</li> <li>Use heaters to maintain optimal temperature of concrete during transit</li> <li>Follow a strict maintenance schedule for vehicles</li> <li>Implement speed restrictions when necessary</li> </ul>	2M
3. Storage of Materials	Concreting materials freezing, Reduced material efficacy	ЗН	<ul> <li>Store materials above freezing temperature in insulated enclosures</li> <li>Monitor storage temperatures regularly</li> <li>Use heating blankets on stored materials</li> <li>Maintain proper ventilation in storage areas</li> <li>Rotate stocks to use older materials first</li> <li>Ensure storage areas have no ingress of cold air</li> <li>Inspect material condition before use</li> <li>Use thermal covers over materials overnight</li> </ul>	2M



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			- Educate workers on the importance of proper storage conditions	
			- Use temperature indicators to alert abnormal temperature drops	
4. Mixing Concrete	Improper blend due to cold, Breakdown of equipment	4A		2M
5. Pouring Concrete	Difficulties in level a surface, Premature freezing at surface	44		2M
6. Curing	Concrete setting prematurely, Surface damage due to cold	4A		2M

Version 2.5

Review #



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7. Inspection and Testing	Inaccurate readings due to cold, Inaccessible testing points	ЗН		1L
8. Site Cleanup	Slips, trips, and face Experimental impacts	зн		2М
9. Working Hours Management	Fatigue in cold conditions, Reduced vigilance	ЗН		2М



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10. Emergency Preparation	Delayed response, Severity of cold injuries	4A		2M
11. Use of Machinery	Reduced machinery efficacy, Breakdown due to cold	4A		2М
12. Communication Channels	Signal failure, Miscommunication due to poor weather	3Н		1L



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13. Access and Egress Points	Slippery surfaces, Blocked paths due to snow	4A		2М
14. Weather Monitoring	Sudden weather changer. Inadere te preparation for extremitie	4A		2M
15. Dehydration Prevention	Increased risk during cold, Neglected water consumption	ЗН		2M

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16. PPE Usage	Inappropriate clothing, Inadequate thermal protection	ЗН		1L
17. Site Lighting	Reduced visibility, Increased impping hazards	ЗН		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 R	REFERENCES				
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEG	ISLATIVE 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 are Safety Act and 4 Occupational Health and an effective gulations 2017 Legis from VIC: <u>https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- rulations</u> or gles of conactice VIC <u>e.ettps://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice</u>				
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, 201, Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/wo</u> place- Codes of Practice NT: <u>https://worksafe.nt.gov.au/formediatestation</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- 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_sa.gov.au/work_saces/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/codes-of-practice">https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice</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> </ul>				
Details of permits, licenses or access required by regulatory bodies (add or delete as required): - Permits from local council - Authorisation to commence work	<ul> <li>Work health and safety consultation, cooperation and coordination</li> <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>				

- Any required documents.