

Construct	ion Of Smokestacks Risk A	ssessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Eme	
THIS RISK ASSESS	MENT IS APPROVED BY THE PC	BU ON V PROJECT	
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:
CL		DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project N.			



				F	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
Ar       Objective minimized in the data of the control and the proceeding in the data by before proceeding. A date work is included by an included pyramid:       Coloured pyramid:         3H       Review and approve additional current of the current of the proceed with caution; monitor conditions.       Image: Coloured pyramid:       Image: Coloured pyramid:         2M       Ensure all nominated controls are in prace and efficience. Monitor and keep records.       Image: Coloured pyramid:       Image: Coloured pyramid:         1L       Proceed, following standard operating procedure: Monitor and keep records.       Image: Coloured pyramid:       Image: Coloured pyramid:         2.       Substitute       Image: Coloured pyramid:       Image: Coloured pyramid:       Image: Coloured pyramid:         3.       Isolate       Image: Coloured pyramid:       Image: Coloured pyramid:       Image: Coloured pyramid:         4.       Engineering       Image: Coloured pyramid:       Image: Coloured pyramid:       Image: Coloured pyramid:         5.       Administrative       Image: Coloured pyramid:       Image: Coloured pyramid:       Image: Coloured pyramid:						Remember to apply controls in the preferred order shown by the coloured pyramid: <ol> <li>Eliminate</li> <li>Substitute</li> <li>Isolate</li> <li>Engineering</li> </ol>	
Consequence		injury/illness)	Project / Ass	Significant regula	pliance / Reputat ator intervention; c		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		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		
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. Site Inspection	uneven terrain, hidden underground utilities	ЗН	Conduct a thorough site survey before beginning work Mark and highlight uneven areas. Use ground penetrating radar to locate understround utilities. Brief workers on the identified site hazards due actionox talks. Ensure all workers wear steel toed boots for proticion. Utilise site barriers to prevent us uthorised entry. Provide workers working, endication hazardous areas. Implement activity inspectic youtine is character to the site. Utilises PS systems during underground interests. Ensure singlighting aspecially in low-visibility areas.	2M
2. Material Delivery	traffic congestion, material falling from delivery vehicles	2	Schedul delayties during low-traffic periods. Unspot its to humage delivery vehicle movements. Train works on safe unloading practices. Use secure ties and supports for securing materials. Inspect delivery vehicles for safety compliance. Designate specific loading/unloading zones. Avoid overhead work while materials are being lifted. Use cones or flags to demarcate no-entry zones. Publish a material delivery timetable. Conduct regular safety briefings for delivery personnel.	1L
3. Foundation Preparation	excavation collapse, exposure to underground utilities	4A	Ensure excavation is supervised by experienced personnel. Use trench supports or shoring for deep excavations. Conduct soil stability tests before digging. Contact utility services before starting excavation. Utilise non-conductive tools to prevent underground strikes. Install barriers around excavation areas. Implement a permit system for work in excavation zones. Regularly inspect excavation walls.	ЗН



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			Ensure immediate access to first-aid.	
			Provide workers with training on excavation hazards.	
4. Concrete Pouring	contact with wet concrete, equipment malfunction	ЗН		2M
5. Scaffold Erection	falls, scaffold collauşe	44		2M
6. Smokestack Assembly	falling components, poor assembly leading to structural failure	4A		ЗН

Version 2.5



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7. Welding and Joining	fire, exposure to welding fumes	зн		2М
8. Insulation Installation	dust inhalation, incurrect interaction leading to poor them. I por mance	зн		1L
9. Painting and Surface Treatment	chemical exposure, falls from height	ЗН		2M



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10. Electrical Work	electric shock, arc flash	4A		2М
11. Weather Monitoring	high winds, extreme temperatures	ЗН		1L
12. Worker Training	unfamiliarity with safety procedures, inadequate hazard recognition	ЗH		1L



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	incorrect waste disposal, exposure to			
13. Waste Management	incorrect waste disposal, exposure to hazardous wastes	ЗН		1L
	1			
14. Communication and Reporting	miscommunication of safety practices, incident reporting failures	3H		1L



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15. Emergency Response Planning	lack of preparedness, delayed response to incidents	4A		2M
	S			



#### **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.

	FERENCES					
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGIS	SLATIVE 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: <a href="https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws">https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws</a> Codes of Practice QLD: <a href="https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice">https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice</a> Legislation ACT: <a href="https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice">https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</a> Codes of Practice ACT: <a href="https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice">https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</a> Codes of Practice ACT: <a href="https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice">https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</a>	Victoria Occupational Health and Safety Action 04 Occupational Health and Infettor gulations 2017 Legis from VIC: <u>https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- tulations</u> Codes of mactice VIC <u>enttps://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/legislatic">https://www.safework.nsw.gov.au/legal-obligations/legislatic</a> Codes of Practice NSW: <a href="https://www.safework.nsw.gov.au/resource-library/lls">https://www.safework.nsw.gov.au/legal-obligations/legislatic</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 2011 Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/workslate-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state-state</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/worf_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>Weiting processes</li> <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>					