

Bridge Instru	mentation Maintenance Ris	sk Assessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Emei	
THIS RISK ASSESS	MENT IS APPROVED BY THE PC	BU ON THE PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts.	person conducting a busine or u	ndertaking PCBU required to ensu	re 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
4A Stop work. The risk is intolerable minate the hazare redesign the activity before proceeding. A Safe Work						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 subs		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 breach; adverse client comment		
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	Inadequate briefing, Incomplete tool inspection	ЗН	 Conduct comprehensive job briefing before starting. Ensure all workers are informed of safety procedures and emergency contacts. Develop a detailed work plan with individue responsibilities. Verify that all tools and equipment have been structed and are in good working condition. Conduct a toolbox talk focuring on potential have ds and safe tomeasures. Ensure all personnel have the recessary PPE (Personal rotective Equipment). Establish commenceaux rotocom including emergency response procedures. Confirm the of permits an approver for work are in place. Identify and source safe access and excess routes on the site. Revent and documentation to ensure it is up to date and relevant. 	1L
2. Site Access	Unauthorized access Transpards	31	 Clearly deline the work creas with temporary fencing and signage. Indemnit a sign in/sign-out system to monitor personnel presence. Person ordelearance procedure to ensure no unauthorized individuals enter the area. Identify trip hazards and ensure they are illuminated and marked. Evaluate that walkways are free from obstruction and well-maintained. Designate a person to supervise entry and exit points during work. Provide induction for new personnel entering the site. Control site access by keeping gates locked when not in use. Regularly review and update access control measures as per site requirements. Conduct regular site access audits. 	1L
3. Equipment Setup	Electrical hazard, Equipment failure	4A	 Ensure all electrical equipment is certified and tested by a competent authority. Implement lockout/tagout procedures prior to equipment setup. Regularly inspect equipment for faults before use. Use surge protectors and ensure all electrical connections are secure. Provide staff with proper training on equipment operation. Ensure redundancy measures for critical equipment failure situations. Use only equipment that complies with Australian Standards. Conduct pre-start checks on all equipment to identify faults. 	2M



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			- Ensure spare parts are available on-site for critical components.	
			- Maintain an equipment log to track usage and maintenance.	
			- Have a qualified technician available to address electrical faults promptly.	
4. Instrument Calibration	Incorrect calibration, Exposure to harmful substances	зн		1L
5. Instrument Installation	Working at height, Manual handling injuries	4A		2M
6. Wiring and Connections	Short circuits, Improper connections	ЗН		1L

Version 2.5



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7. Testing and Commissioning	Equipment malfunction, High noise levels	4A		2M
8. Data Collection and Monitoring	Data inaccuracy, Unauthorized data access	ЗН		1L



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9. Maintenance	Mechanical failure, Chemical exposure	3Н		1L
10. Demobilisation	Improper disposal, Traffic hazards	ЗН		1L
11. Reporting and Review	Poor reporting, Lack of review	ЗН		1L

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12. Continuous Improvement	Complacency, Resistance to change	ЗН		1L
13. Emergency Response	Inadequate planning, Delayed responses	4A		2М



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14. Decommissioning	Environmental contamination, Structural instability	ЗН		1L
15. Communication	Miscommunication, le sumas er overload			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.

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: 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/codes-of-practice Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice	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: https://www.safework.nsw.gov.au/legal-obligations/legislatic Codes of Practice NSW: https://www.safework.nsw.gov.au/legal-obligations/legislatic	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</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: 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	 Weiting 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 						
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.	 Managing the work environment and facilities How to manage work health and safety risks Managing risks of plant in the workplace Construction work 						