

Expansion Of E	xisting Electrical Systems	Risk Assessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Eme	
THIS RISK ASSESSI	MENT IS APPROVED BY THE PC	BU ON W 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 New			



				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
4AStop Meth3HRevia2MEnsu1LProceConsequen	eed, following star	intolerable, in VMS) or hi er-l dditional currol controls are import ndard operating	ace and efficieve. Proposed are Annual Annua	required. ts. Senior supervisor oceed with caution; m and keep records.	sign-off needed. nonitor conditions.		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	Significant regulator intervention; criminal prosecution Improvement notice; major media coverage		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	Minor 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				



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	Electrical shock, Tool injuries	4A	 Conduct a thorough site assessment to identify potential hazards Ensure all personnel are trained on the specific equipment being used Verify that all electrical tools and equipment are proper to a intained and tested Ensure that personal protective equipment (a C) to available and used appropriately Install lockout/tagout procedures before comms bing work Ensure clear and comprehence work plans are commondated Keep a first aid broaden wailable on-site Enforce thorse of insulate tools an equipment Restort access to work plans to authorized personnel only Have a merge of procedure plan in place and communicate it to all workers 	2М
2. Site Inspection	Trip hazards, Electricate conds	21	 Condult a vertal inspection for wire routing and secure loose wires Spectifie ground for stability and any trip hazards Guiden eles through designated cable trays or conduits Ivaluate electrical load capacity before making additions Mark hazardous areas clearly Check for any signs of thermal overload or electrical faults Ensure that all site personnel are informed of ongoing inspection activities Regularly review and update inspection procedures Have a qualified electrician carry out inspections Use non-conductive ladders and personal tools 	2М
3. Equipment Delivery	Equipment handling injuries, Traffic- related accidents	4A	 Use appropriate lifting techniques or mechanical aids for heavy loads Employ trained personnel for equipment unloading Coordinate delivery times to avoid high-traffic periods Ensure all moving parts are secure during transit Clearly mark delivery zones and keep them free of obstacles Provide a site guide for delivery drivers Use spotters when backing or positioning heavy equipment Perform pre-use equipment checks before offloading 	2M



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			- Prohibit unauthorised personnel from the delivery area	
			- Enforce speed limits within the site	
4. Equipment Installation	Electrical shock, Falls from height	4A		2М
5. Cable Laying	Trip hazards, Straunnjuries	44		2М
6. Connection to Existing Systems	Electrical burns, Surge damages	4A		2М

Version 2.5



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7. Testing	System overload, Arc flash	4A		2М
8. System Integration	Data loss, Equipment and Louon	зн		1L
9. Training	Lack of compliance, Misunderstanding procedures	4A		1L

Version 2.5

Review #



JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
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10. Maintenance Scheduling	System downtimes, Missed inspections	ЗН		2M
11. Emergency Preparedness	Delayed response, Inadequate resources	ЗН		1L
12. Post- Implementation Review	Overlooked issues, Incomplete documentation	ЗН		1L

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13. Documentation	Incomplete records, Inefficient data management	ЗН		1L
14. Review of Existing Plans	Non-compliance, Overlaming procedures	2М		1L
15. Handover	Loss of knowledge, Miscommunication	ЗН		1L

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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 RE	FERENCES					
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISL	LATIVE 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.gld.gov.au/laws-and-compliance/work-health-and-safety-laws Codes of Practice QLD: https://www.worksafe.gld.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	Victoria Occupational Health an Safety Actnov4 Occupational Health and Infetving gulations 2017 Legismon VIC: <u>https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- ingulations</u> Unders on mactice VICouttps://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: <a acts-and-regulations"="" href="https://www.safework.nsw.gov.au/legal-obligations/legislati-codes-of-brack</td><td>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></td></tr><tr><td>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/weblace-set-laws</u>
Codes of Practice NT: <u>https://worksafe.nt.gov.au/formations/incerveblace-set-laws</u>
Codes of Practice NT: <u>https://worksafe.nt.gov.au/formations/incerveblace-set-laws</u></td><td>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></td></tr><tr><td>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/work_dces/codes-of-practice#COPs</td><td>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</td></tr><tr><td>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	 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 					