

Preparing E	Electrical Schematics Risk	Assessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Ema.	
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	re that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CL	OR PRICEIN LCO. TRACTOR I	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project Iv			



RISK MATRIX LIKELIHOOD INSIGNIFICANT MINOR MODERATE MAJOR CATASTROPHIC HIERARCHY OF CONTROLS SCORE ACTION Elimination ALMOST 3 HIGH 3 HIGH 4 4 ACUTE ACUTE ACUTE **CERTAIN** Remove the hazard. Substitution 4 4 DO NOT Replace the hazard. LIKELY **MODERATE** HIGH HIGH ACUTE ACUTE ACUTE ROCEED Isolation Isolate People from the hazard 2 3 4 3H Rev before POSSIBLE MODERATE ACUTE ACUTE LOW HIGH HIGH. work Engineering Isolate the l/Acchanich. Ensure control 2 3 2M istrativ UNLIKELY measures in LOW LOW MODERATE HIGH ACU RATE е place. Chang 2 MODERATE 3 HIGH 1L Monitor and RARE LOW LOW LOW keep records.

Risk Rating & Required Action:

4A	Stop work. The risk is intolerable,	minate the hazard	redesign the activity before proceeding. A Safe Work
	Method Statement (SWMS) or hi	er-level authorisation	is required.
3H	Review and approve additional c	role ask	arts. Senior supervisor sign-off needed.
2M	Ensure all nominated controls are in	prace and effective	Proceed with caution; monitor conditions.
1L	Proceed, following standard operating	ng procedurer //oni	itor and keep records.

Consequence Scale:

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

Notes on Hierarchy of Controls:

Remember to apply controls in the preferred order shown by the coloured pyramid:

- 1. Eliminate
- Substitute
- 3. Isolate
- 4. Engineering
- 5. Administrative
- 6. PPE

Always document **why** a lower-order control is accepted if elimination or substitution is not reasonably practicable.

aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.



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	Lack of adequate knowledge, Improper tool usage	3H	- Conduct a pre-job briefing to ensure understanding of tasks - Verify availability and condition of necessary trus - Provide adequate training to staff on electrical schematic - Ensure SOPs are available and understood - Implement a buddy system for support and guitance - Conduct safety induction for may workers - Ensure PPE availability of suitantity - Assign task according to apprience level - Supportise and mentors experienced sur - Revulture eviduals and lessons learned	2M
2. Site Inspection	Slips, trips, and falls, Obstructions and clutter	31	- Perfor tregger house peping inspections - passigna → speces paths for movement Remain necessary clutter from work areas - lark potential hazards with clear signage - Evisure walkways are free from obstruction - Implement 'clean-as-you-go' policy - Conduct slip resistance tests on flooring - Maintain adequate lighting levels - Provide non-slip mats as necessary - Conduct training on situational awareness	1L
3. Gathering Information	Inaccurate data collection, Exposure to uncontrolled sources	2M	- Validate all data with secondary sources - Limit entry to hazardous areas - Verify permissions for data access - Provide data collection templates - Conduct regular equipment calibrations - Use appropriate PPE when in potentially hazardous settings - Limit time spent in areas with uncontrolled sources - Cross-check information with relevant personnel	1L



4

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			- Use technology (iPads, electronic forms) to ensure accuracy	
			- Implement procedures for data verification	
Developing Initial Schematic	Software malfunction, Data misinterpretation	3H		2M
5. Reviewing Draft	Miscommunication unclear specifications	2M		1L
6. Finalising Design	Overlooking design errors, Time pressure	ЗН		2M



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7. Approval Process	Incomplete documentation, Delays in feedback	2M		1L
8. Conducting Simulations	Incorrect simulation param Overloading of test output	зн		2M
9. Final Review	Last-minute changes, Fatigue	2M		1L



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10. Documenting Schematics	Loss of documentation, Inaccurate recording	2M		1L
11. Training Deployment	Training fatigue, Inadequate retention of information	ЗН		2M
12. Installation	Electric shock, Incorrect installation procedures	4A		2M



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13. Testing and Commissioning	Incorrect functioning, Exceeded operational parameters	ЗН		2M
14. Maintenance Planning	Prolonged downtime, Inadequate resource allocation	2M		1L
15. Final Handover	Lack of proper sign-off, Miscommunication between teams	2M		1L



SPECIFIC WORK STEPS HAZARDS THAT MAY ARISE NITTAL RISK SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECIFIC WORK STEPS HAZARDS THAT MAY ARISE NITTAL RISK SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS RESPECTIVE MEASURES TO BE PUT IN PLACE TO BE	JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
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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 REFERENCES

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES. ANY STATE OF AT ARE NOT APPLICABLE.

Queensland & Australian Capital Territory

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

 $\underline{\textbf{Legislation QLD:}} \ \underline{\textbf{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws}}$

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

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/legislations/

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis > odes-oi racti

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulation 201

Codes of Practice NT: https://worksafe.nt.gov.au/f

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_aces/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.

Victoria

Occupational Health at Safety Act 34

Occupational Health and affety gulations 2017

Legis on VIC: https://www.ssafe.vic.gov.au/occupational-health-and-safety-act-and-

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tes of actice VIC attps://www.worksafe.vic.gov.au/compliance-codes-and-codes-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

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