

Solderin	g Of Wiring Ends. Risk Ass	sessment	
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 pis 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 PRI. CIL L. CO. TRACTOR I	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project In			



#### **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 hime	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	ig procedure // Ion	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.



3

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	electric shock, burns	3H	<ul> <li>Ensure all equipment is properly maintained and chacked before use.</li> <li>Verify that safety signs and warnings are clear visible.</li> <li>Wear appropriate personal protective equation and (PPE) such as gloves and safety glasses.</li> <li>Ensure work area is well-ventilated.</li> <li>Check that the soldering irrea is in good condition and free free parefects.</li> <li>Inspect all electrical wiring an appropriate personal case of injuries.</li> <li>Verify solding irron temporature is not appropriately.</li> <li>Layer work area to assort in pazards.</li> <li>Ensure the fire extra asher is accessible.</li> </ul>	2M
2. Setting Up Workstation	trip hazards, fires	2)	<ul> <li>Keep to bles and core meatly organized to prevent trips.</li> <li>Intup's Idering station on a stable, heat-resistant surface.</li> <li>Clears for k hot surfaces and areas around the workstation.</li> <li>Improve any flammable materials from the work area.</li> <li>Existing there is a fire extinguisher nearby.</li> <li>Use heat-resistant mats to contain hot solder splashes.</li> <li>Arrange tools and materials for easy access to minimize movement.</li> <li>Post clear warning signs regarding hot surfaces.</li> <li>Maintain a clear evacuation route.</li> <li>Regularly inspect work area for potential hazards.</li> </ul>	2M
3. Inspecting Wiring	electric shock, cuts	ЗН	<ul> <li>Disconnect power supply before handling wires.</li> <li>Use insulated tools to inspect wiring.</li> <li>Identify and isolate faulty wiring for further inspection.</li> <li>Wear cut-resistant gloves during inspection.</li> <li>Conduct visual checks for frayed or damaged wires.</li> <li>Ensure compliance with electrical standards when identifying issues.</li> <li>Confirm that appropriate personnel are available for assistance if needed.</li> <li>Clearly label any identified hazards.</li> </ul>	2M



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			- Use a multimeter to test for live circuits safely.	
			- Ensure hands are dry to prevent slip injuries.	
4. Cutting Wires	cuts, electric shock	3Н		2M
5. Stripping Wires	cuts, electric shoo	ЗН		2M
6. Tin Soldering Iron	burns, toxic fumes	ЗН		1L



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7. Applying Solder	burns, toxic fumes	3Н		2M
8. Soldering Wire Ends	burns, toxic fumes	4A		2M
9. Inspecting Soldered Joints	burns, electrical faults	3H		1L



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10. Cleaning Up Workspace	slips, burns	ЗН		1L
11. Final Inspection	electrical faults, fire risks	ЗН		1L
12. Monitoring and Review	poor work practices, overlooking defects	2M		1L



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13. Training Of Personnel	unfamiliarity with processes, insufficient safety knowledge	ЗН		2M
14. Maintenance Of Equipment	equipment failure, electrical hazards	ЗН		¶ 1L
15. Handling Emergency Situations	untreated injuries, fire outbreaks	4A		2M



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16. Documentation and Record Keeping	incomplete data, non-compliance	2M		1L
17. Decontamination Procedures	chemical exposure, biological hazards	ЗН		1L



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18. Waste Management	improper disposal, environmental damage	ЗН		1L
19. Reviewing Risk Assessment	outdated procedures, failure to identify new risks	21		1L
20. Continuous Improvement	complacency, inefficiency	2M		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 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

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

### **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

Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/wo\_place-

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/le\_lation

Codes of Practice for SA: <a href="https://www.safework.sa.gov.au/wor">https://www.safework.sa.gov.au/wor</a> 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 afety gulations 2017

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

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des on actice VI autros://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