

So	Idering Iron Risk Assessm	ent	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Eme	
THIS RISK ASSESS	MENT IS APPROVED BY THE PC	BU ON Y PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a pis prepared before the proposed work starts.	person conducting a busine or un	dertaking PCBU required to ensu	ire that a RISK ASSESSMENT
Full Name:			
Signature:		ntle:	Date:
CL		DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project New York			



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
Risk Rating & Required Action:         4A       Stop work. The risk is intolerable, cominate the hazard predesign the activity before proceeding. A Safe Work Method Statement (SWMS) or his er-level authorisatic is required.         3H       Review and approve additional corrols in prace and efficience. Proceed with caution; monitor conditions.         2M       Ensure all nominated controls are in prace and efficience. Proceed with caution; monitor conditions.         1L       Proceed, following standard operating procedures wonitor and keep records.         Consequence Scale:							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	lverse client comn	nent	work (2023) and ISO 45001:2018 clauses 6–8.
Minor	First-aid only, no	lost time	negligible dela	y Isolated non-con	formance		
	No injury no schedule 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	Burns from hot surfaces, Electric shock	ЗН	<ul> <li>Ensure area is clean and dry to prevent slipping or opping.</li> <li>Check all electrical cables and connections are used and not frayed or damaged.</li> <li>Verify the soldering iron is in good working condition with the visible damage.</li> <li>Clearly label the work area with warnings about the orffaces.</li> <li>Use an antistatic wrist strappo prevent electric strack.</li> <li>Maintain a tidy workspace to use date accidental connection are available and worn as required.</li> <li>Provide provent training or use use coldering work.</li> <li>Connect a programmer of the fore commencing work.</li> <li>Estation an embound response plan for electrical incidents.</li> </ul>	1L
2. Setting up the Workspace	Fire hazards from flammable materials, Trip hazards	21	<ul> <li>Keep I mmute materials away from the soldering area.</li> <li>Issure oldering from stands are stable and not near edges of work surfaces.</li> <li>Design tha dedicated area for soldering tasks away from public thoroughfares.</li> <li>se soldering mats or heat-resistant surfaces under soldering areas.</li> <li>Ewsure adequate ventilation to prevent inhalation of fumes.</li> <li>Arrange cables and equipment to minimise trip hazards.</li> <li>Mark walkways clearly to guide foot traffic safely.</li> <li>Use warning signage to indicate active work areas.</li> <li>Implement regular housekeeping to keep surfaces clean.</li> <li>Conduct briefings on workspace organisation.</li> </ul>	2M
3. Heating the Soldering Iron	Overheating of the iron, Emission of toxic fumes	ЗН	<ul> <li>Monitor the soldering iron temperature to prevent overheating.</li> <li>Use safety timers if available to control heating periods.</li> <li>Ensure proper ventilation to avoid the build-up of toxic fumes.</li> <li>Utilise solder with low fume emission where possible.</li> <li>Deploy extraction systems or fume candles near soldering stations.</li> <li>Instruct users on the specific iron settings suitable for materials being worked on.</li> <li>Enforce use of appropriate masks if ventilation is inadequate.</li> <li>Conduct regular checks and maintenance on fume extraction systems.</li> </ul>	1L



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4. Applying Solder to Connection Joints	Contact with hot equipment, Toxic solder fumes	BISK 3H	<ul> <li>Ensure all users have access to safety data sheets for materials used.</li> <li>Provide training on recognising symptoms of fume inhalation.</li> </ul>	1L
5. Cooling Down Period	Burns from residuu heat, Unerers led movement or stora	2M		1L
6. Maintenance of Soldering Equipment	Electrical shock during maintenance, Burns from handling hot solder tips	ЗН		1L



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7. Training and Competence	Inadequate training leading to improper use, Complacency or neglect of procedures	ЗН		1L
8. Personal Protective Equipment (PPE)	Insufficient PPE leading to injury Inappropriate PPE use	ЗН		1L
9. Waste Management	Environmental hazards from improper disposal, Health risks from exposure to lead and other toxins	ЗН		1L



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10. Emergency Preparedness	Inadequate response to incidents, Delayed first-aid access	4A		1L
11. Inspection and Testing	Use of faulty equipment, Overlooked safety defects	ЗН		1L

Version 2.5



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12. Ventilation and Air Quality Control	Exposure to poor air quality, Fume buildup in inadequately ventilated spaces	ЗН		1L
13. Fire Safety	Fire outbreak due to faulty suppression systems	4A		1L
14. Record Keeping	Loss of critical safety data, Non- compliance with regulatory requirements	2M		1L

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15. Continuous Improvement	Complacency with current procedures Failure to integrate new safety technologies	21/1		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.

LEGISLATIVE F	REFERENCES
RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEG	GISLATIVE 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: <u>https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws</u> Codes of Practice QLD: <u>https://www.worksafe.gld.gov.au/laws-and-compliance/codes-of-practice</u> Legislation ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations</u> Codes of Practice ACT: <u>https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice</u>	Victoria Octopational Health and Safety Action 04 Octopational Health and Safety Action 04 Octopational Health and Safety Supervised Safety Software Sof
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/legislative">https://www.safework.nsw.gov.au/legal-obligations/legislative</a> Codes of Practice NSW: <a href="https://www.safework.nsw.gov.au/resource-library/lis">https://www.safework.nsw.gov.au/legal-obligations/legislative</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/worplace-serve-laws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/f</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/legulation</u> Codes of Practice for SA: <u>https://www.safework.sa.gov.au/work_saces/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/codes-of-practice">https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice</a> Codes of Practice for TAS:	<ul> <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> </ul>
Details of permits, licenses or access required by regulatory bodies (add or delete as required): - Permits from local council - Authorisation to commence work	<ul> <li>Work health and safety consultation, cooperation and coordination</li> <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>

- Any required documents.