

Annealing And	Case Hardening Of Metals	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:		ntle:	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 A	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 ator intervention; c		Always document why a lower-order control is accepted if
Catastrophic Major	Fatality or perma Serious injury/illr days)			wn prosecution	tice; major media		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	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	Sharp edges, Slippery floor	ЗН	 Conduct a pre-work safety briefing to address potential risks Use protective gloves to avoid cuts from share ages Ensure the work area is clear of unnecessory obstruction Wear anti-slip footwear to prevent slips Maintain good housekeepin practices Clearly mark hazardous zone with warning signs Inspect tools and quip with for any defects Limit accessory authorised ersonna only Creardia control hension safety checks Ensure a control hension safety checks Ensure accessory authorised are visible 	2M
2. Loading Materials	Manual handling, Overloading equipment	4	 Ensurativorities are tracked in proper lifting techniques The appropriate of ting aids and equipment to minimise strain Limite or reight of materials as per equipment specifications Jonitor the weight and load capacity regularly Eworce a buddy system for lifting heavy objects Conduct regular maintenance on lifting equipment Clearly label load limits on all equipment Implement signage for lifting zones Schedule regular rest breaks after heavy lifting tasks Encourage the use of mechanical aids where possible 	2M
3. Heating Process	High temperatures, Exposure to fumes	4A	 Ensure proper ventilation systems are in place and functioning Provide heat-resistant personal protective equipment to workers Conduct regular air quality monitoring for hazardous fumes Establish safe zones around heating equipment Limit exposure time in high-temperature areas Install temperature sensors to alert for unsafe conditions Train workers on the symptoms of heat-related illnesses Implement strict equipment maintenance schedules 	2M



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			- Ensure emergency cooling systems are operational - Provide accessible hydration stations for workers	
4. Monitoring Temperature	Equipment malfunction, Thermal burns	ЗН		1L
5. Quenching Process	Hot oil splashes, suppery surfaces	44		2М
6. Cleaning and Maintenance	Chemical exposure, Noise	ЗН		2M



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7. Inspection	Undetected faults, Inadequate inspection	ЗН		1L
8. Lubrication	Incorrect lubricant user suge	PM		1L
9. Final Assembly	Misalignment, Unsecured components	2М		1L



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10. Packing and Storage	Material damage, Inappropriate storage conditions	2М		1L
11. Documentation	Inaccurate records, Data breaches	2M		1L
12. Waste Disposal	Chemical spills, Non-compliance with regulations	ЗН		1L



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13. Operator Training	Inadequate skills, Unfamiliarity with equipment	4A		2М
14. Emergency Preparedness	Panic, Equipment inaccessibility	ЗН		1L
15. Continuous Improvement	Complacency, Lack of communication	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 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 an Safety Act and Occupational Health and pretvingulations 2017 Legis on VIC: <u>https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and- gulature</u> Codes on mactice VIC <u>extps://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/legislative Codes of Practice NSW: https://www.safework.nsw.gov.au/legal-obligations/legislative	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 201. Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/wo</u> <u>place-sector-laws</u> Codes of Practice NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/wo</u> <u>place-sector</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_laces/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/codes-of-practice 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 						
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.	 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 						