

Annealing A	nd Tempering Process Risk	Assessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Ema.	
THIS RISK ASSESSI	MENT IS APPROVED BY THE PC	BU OF Y PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts.	person conducting a busine or un	dertaking PCBU required to ensu	re that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CLI	OR PRICE LCO. TRACTOR I	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project Iv			

Version 2.5 Authorised by Review # Review Date:



#### **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 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 predesign the activity before proceeding. A Safe Work
	Method Statement (SWMS) or hit er-level authorisation is required.
3H	Review and approve additional controls to the last arts. Senior supervisor sign-off needed.
2M	Ensure all nominated controls are in prace and efficiency roceed with caution; monitor conditions.
1L	Proceed, following standard operating procedures. Monitor 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
ivioderate	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
- 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	Manual handling injuries, Slips, trips, and falls	3H	<ul> <li>Conduct a pre-task briefing to identify hazards and antrols.</li> <li>Ensure all personnel are trained in manual browing techniques.</li> <li>Keep work area clean and free of debris.</li> <li>Use correct lifting techniques and seek assist nor ownen necessary.</li> <li>Ensure appropriate footweards worn at all times.</li> <li>Clearly mark walkways and hazard zones.</li> <li>Conduct regulars spectors of travork area to identify and rectify slip hazards.</li> <li>Use slip-remain mats while appropriate.</li> <li>Arrange tools and mats are within easureach to reduce unnecessary movement.</li> <li>Limin haveight and so be handled manually.</li> </ul>	2M
2. Material Handling	Crush injuries, Contact Carp edge	3)	<ul> <li>Use in charcal lifting ids where possible.</li> <li>Use methan all lifting ids where possible.</li> <li>Use methan are trained in the use of lifting equipment.</li> <li>Wear are opriate personal protective equipment (PPE) including gloves.</li> <li>Use personal protective equipment (PPE) including gloves.</li> <li>Use personal protective equipment (PPE) including gloves.</li> <li>Use pathways of sharp edges before handling.</li> <li>Clear pathways of obstructions before moving materials.</li> <li>Provide adequate lighting to ensure visibility.</li> <li>Use drop sheets or covers when moving materials prone to causing injury.</li> <li>Label sharp or hazardous materials clearly for handlers.</li> <li>Implement a buddy system for heavy or awkward lifting tasks.</li> </ul>	2M
3. Loading Furnace	Burn injuries, Exposure to high temperatures	4A	<ul> <li>Ensure all workers are equipped with heat-resistant PPE.</li> <li>Implement strict access controls to furnace area.</li> <li>Use tools specifically designed for high-temperature environments.</li> <li>Allow only trained personnel to operate the furnace.</li> <li>Conduct regular equipment inspections and maintenance.</li> <li>Clearly display warning signs and temperature indicators.</li> <li>Establish a heat distress monitoring system for workers.</li> <li>Set safe distances for personnel during operation.</li> </ul>	2M



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			- Use thermographic cameras to monitor surface temperatures.	
			- Implement a failsafe shutdown procedure in case of emergencies.	
4. Monitoring Temperatures	Thermal fatigue, Heat exhaustion	4A		1L
5. Quenching	Thermal shock, Che. exposure	JA		2M
6. Inspecting	Repetitive strain injuries, Poor visibility	ЗН		1L



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7. Unloading Furnace	Burn injuries, Mechanical failure	4A		2M
8. Storing Materials	Stack collapse, Tripping hazards	ЗН		2M
9. Maintenance	Electrical shock, Tool-related injuries	3H		1L



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10. Quality Control	Contamination, Documentation errors	2M		1L
11. Packaging	Cuts from packaging material, incorrect labelling	2M		1L
12. Transportation	Vehicle accidents, Product damage	3H		2M



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13. Waste Management	Chemical exposure, Incorrect waste segregation	3H		2M
14. Emergency Procedures	Inadequate emergency response, Panic during evacuations	4A		1L
15. End-of-Day Procedures	Unauthorized access, Residual energy hazards	3H		1L



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16. Reporting Incidents	Delayed reporting, Incomplete records	3Н		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 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/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 Infety gulations 2017

Legis on VIC: https://www.wksafe.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): <a href="https://www.safeworkaustralia.gov.au/law-and-regulation">https://www.safeworkaustralia.gov.au/law-and-regulation</a> Model Codes of Practice: <a href="https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice">https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice</a>

#### **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