

Copper	Tubing Bending Risk Asse	essment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Ema.	
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THIS RISK ASSESSM	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 PRICEIN 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 injury, exposure to sharp edges	3H	- Conduct a pre-task safety briefing to discuss potential hazards - Ensure correct PPE is worn including gloves as protective eyewear - Use mechanical aids to transport materials when possible - Ensure proper lighting in the work area - Keep the work area tidy to reevent trips and fail Ensure first aid kits are easily accessible - Provide instructionar summand handling techniques - Limit the work of loads load mandally to somewhat - Inspect all too and examinent for datage before use - Ensure all too and examinent and competent for the task	2M
2. Material Inspection	contact with defective materials, pinch points	31	<ul> <li>Inspec all tung for creets before use</li> <li>the globes to readle materials</li> <li>Remove the defective materials from the work area immediately</li> <li>tore materials safely to prevent them from rolling or falling</li> <li>Implement SOP for material handling</li> <li>Use barriers to separate any defective stock</li> <li>Conduct regular audits of materials</li> <li>Utilise bonding racks to hold materials safely</li> <li>Communicate clearly any defects found to the team</li> <li>Ensure pinch points on equipment are covered or guarded</li> </ul>	1L
3. Tool Setup	incorrect use of tools, electric shock	4A	- Ensure all tools are correctly rated and inspected for electrical safety - Provide training on correct tool usage - Display warning signs around electrical hazards - Test and tag all electrical equipment regularly - Implement a Lockout/Tagout (LOTO) procedure for malfunctioning tools - Maintain a log of tool inspection - Use tools only for their intended purpose - Provide insulated equipment where necessary	2M



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			- Use RCDs where appropriate	
			- Ensure no flammable materials are near electrical tools	
4. Machine Operation	entanglement, operator error	3H		1L
5. Cutting Tubing	lacerations, flying sbris	ЗН		1L
6. Bending Tubing	strain injuries, equipment failure	3Н		2M



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7. Joining Sections	toxic fume inhalation, burns	4A		2M
8. Installation	electrical contact, it reight	JA		2M
9. Testing	pressure build-up, noise pollution	ЗН		2M



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
10. Clean-Up	slips and trips, chemical exposure	2M		1L
11. Quality Inspection	ergonomic strain, repetitive motion injuries	2M		1L
12. Project Review	data errors, incomplete documentation	2M		1L



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SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
13. Communication	miscommunication, language barriers	3Н		1L
14. Training	knowledge gaps, lack of competence	4A		2M
15. Documentation	data loss, incomplete records	2M		1L



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
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16. Emergency Planning	unpreparedness, confusion during emergencies	4A		2M



#### **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: <a href="https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice-legislation">https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice-legislation</a> ACT: <a href="https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations">https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations</a>

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/legislative

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis codes-of ractions of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis codes-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-ractions-of-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

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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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