

Conduct	Pipeline Pigging. 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 PRICEIN LCO. TRACTOR I	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project Iv			



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 hi	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 efficive	Proceed with caution; monitor conditions.
1L	Proceed, following standard operating	ng procedurer //oni	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.



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	Slips, trips and falls, Manual handling injuries	3H	 Conduct a site walk-through to identify any existing a ipping hazards and rectify them before work starts. Use appropriate signage to alert personnel to cown hazards. Brief all team members on manual handling techniques a secific to the tasks at hand. Ensure all workers are wearing appropriate source and footwear. Assign tasks based on individual capability to not attein jury trade. Provide training on safe lifting procedures and the majority mechanical aids. Conduct toolbox and to inforce the importance of maintaining a tidy work area. Implementatives the inforce the importance of maintaining a tidy work area. Encounage a mildy swown to watch a nor each other's safety. Ensure age a mildy swown to watch a nor each other's safety. Ensure age a mildy swown to watch a nor each other's safety. 	2M
2. Equipment Inspection	Equipment malfunctions Electrical shock		 Conduct a two pugh respection of all pigging equipment as per the manufacturer's guidelines before neration. Vereith all electrical equipment is tested and tagged in accordance with Australian Standards. Ensure exergency stop mechanisms are fully operational and accessible. Replace or repair any equipment showing signs of wear or damage prior to use. Ensure all personal protective equipment (PPE) is available, in good condition, and used correctly. Disconnect power supply before conducting any equipment inspection. Establish a lockout/tagout procedure for isolating equipment during maintenance. Ensure test results are reviewed and followed up with necessary actions. Conduct refresher training for workers on identifying inspection points and hazard signs. 	2M
3. Safety Briefing	Lack of awareness, Miscommunication	3Н	 Conduct a pre-start meeting with all personnel to discuss the day's activities and potential risks. Use visual aids and checklists to reinforce key safety messages and procedures. Verify that all workers understand their roles and the tasks they will perform through direct questioning. Implement a 'stop and question' policy to encourage workers to seek clarity on uncertain tasks. Ensure that communication devices are available to maintain contact between team members. Assign a designated safety officer to monitor and enforce compliance throughout the operation. Provide language support or translators for non-English speaking workers if necessary. Implement a buddy system to ensure workers have someone to consult immediately if needed. 	1L



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			- Regularly update the team on any changes to the work plan or identified risks.	
4. Site Access Control	Unauthorised access, Environmental exposure	ЗН	- Conduct 'what if' scenarios and emergency drills to improve preparedness.	1L
5. Pipeline Isolation	Uncontrolled release of pipeline contents, Pressure build-up	4A		2M



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6. Venting and Draining	Possible leakage, Gas exposure	4A		2M
7. Pigging Operations Setup	Incorrect installation, Crushing injuries	ЗН		2M



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8. Pigging Process	High-pressure accidents, Equipment failure	4A		2M
9. Pig Retrieval	Exposure to hazardous debris, Blocks or jams	зн		2M



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10. Post-Operation Checks	Residual pressure, Contamination	ЗН		1L
11. Maintenance	Tool-related injuries, Exposure to hazardous materials	3H		2M



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12. Record Keeping	Inadequate documentation, Data Loss	2M		1L
13. Personnel Training	Inadequate skill or training, Procedural non-compliance	3Н		1L



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14. Communication Protocols	Miscommunication, Description are gency response			1L
15. Emergency Response	Delayed reaction, Insufficient emergency resources	4A		2M



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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/legislatide

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 affety gulations 2017

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

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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