

Isola	te Gas Supply Risk Assess	sment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Ema.	
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THIS RISK ASSESSI	MENT IS APPROVED BY THE PCI	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 PRI. CIL L. CO. TRACTOR I	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project			

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 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	Incorrect tool selection, Lack of training	ЗН	<ul> <li>Ensure all workers are adequately trained in the gas solation procedure.</li> <li>Verify that the appropriate tools and equipmentare available for the task.</li> <li>Conduct a toolbox talk to discuss the job stards and the sontrol measures.</li> <li>Check that all personal protective equipmentariles equired is available and in good condition.</li> <li>Confirm emergency procedures are clearly containicated are understood by all workers.</li> <li>Conduct a risk assessment to centify specific site and are understood by all workers.</li> <li>Create an isolation plant alored of the work site requirements.</li> <li>Ensure containication decreases are action of and personnel know how to use them.</li> <li>Estate that a containing of authority and communication for the task.</li> <li>Ensure that are arricades are available and used effectively.</li> </ul>	2M
2. Identify Gas Supply	Misidentification of gas line. Exposure thazardous substance		<ul> <li>Use the facilities updated schematics to identify the gas supply line.</li> <li>Logage compliant person to assist with identification.</li> <li>Compliantification with at least two knowledgeable persons.</li> <li>Use gas detection equipment to ensure the correct line is identified.</li> <li>Label the supply line clearly for future reference.</li> <li>Implement a peer review process for verification.</li> <li>Ensure the work area is well ventilated and monitor air quality.</li> <li>Instruct workers to maintain safe distances from potential sources of exposure.</li> <li>Provide adequate PPE such as masks and gloves to workers.</li> <li>Incorporate input from all staff in the identification process and planning.</li> </ul>	2M
3. Obtain Permits	Lack of necessary permits, Incorrect information on permits	ЗН	<ul> <li>Review the scope of work to determine what permits are needed.</li> <li>Write applications accurately with detailed descriptions of the work to be performed.</li> <li>Ensure correct authorisation of all permits before the start of the work.</li> <li>Provide training on permit requirements to all staff involved.</li> <li>Cross-check permit details with the work plan and risk assessments.</li> <li>Retain copies of all permits in an accessible location at the site.</li> <li>Arrange for an onsite inspection if required by permits.</li> <li>Implement a double-check system for verifying permit acquisition.</li> </ul>	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
			- Assign the responsibility of permit management to a dedicated staff member.	
			- Keep track of permit expiration and renew as necessary.	
4. Isolate Gas Supply	Failure to close valves completely, Incorrect sequence in isolation	4A		2M
5. Test for Gas Presence	Residual gas in lines, Inadeque to esting equipment	4A		1L
6. Ventilate Area	Insufficient ventilation, Risk of ignition from ventilation equipment	ЗН		1L



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7. Drain Gas Lines	Exposure to residual gases, Environmental contamination	4A		2M
8. Perform Maintenance	Exposure to hazardous in Inadequate protective equipment	ЗН		2M
9. Reassemble Equipment	Incorrect assembly, Loss of containment	3H		2M



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10. De-Isolate Gas Supply	Unexpected gas release, Failure to check for leaks	4A		2M
11. Conduct Final Inspection	Overlooked faults, Lack of comprehensive inspection	3H		1L



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12. Debrief	Miscommunication, Incomplete incident report	2M		1L
13. Documentation	Incomplete records Unauth access to sensitive incompation	ВН		1L
14. Evaluation and Feedback	Bias in evaluations, Overlooking stakeholder input	2M		1L



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15. Continuous Improvement	Resistance to change, Inadequate resources	2M		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

 $\textbf{Legislation QLD:} \ \underline{\textbf{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws}$ 

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/le\_lation

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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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