

## Leaking Fluid Containment Risk Assessment

Business Name:	ABN:	
Business Address:		
Contact Person:	Phone:	Email:

## THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THE PROJECT

Under the Work Health and Safety Regulation (WHS Regulation), a person conducting a business or undertaking (PCBU) is required to ensure that a RISK ASSESSMENT is prepared before the proposed work starts.

Full Name:		
Signature:	Title:	Date:

## CLIENT OR PRINCIPAL CONTRACTOR DETAILS

Client:	SCOPE OF WORKS
Project Name:	
Project Address:	
Project Manager:	
Contact Phone:	
Date Risk Assessment supplied to Project Manager:	

RISK MATRIX									
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION	HIERARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	Elimination Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE			Substitution Replace the hazard.	
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE			Isolation Isolate People from the hazard	
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE			Engineering Isolate the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH			Administrative Change	
						1L LOW	Monitor and keep records.	PPE	
<b>Risk Rating &amp; Required Action:</b>								<b>Notes on Hierarchy of Controls:</b>	
4A		Stop work. The risk is intolerable. Eliminate the hazard or redesign the activity before proceeding. A Safe Work Method Statement (SWMS) or higher-level authorisation is required.						Remember to apply controls in the preferred order shown by the coloured pyramid:	
3H		Review and approve additional controls before task starts. Senior supervisor sign-off needed.						1. Eliminate	
2M		Ensure all nominated controls are in place and effective. Proceed with caution; monitor conditions.						2. Substitute	
1L		Proceed, following standard operating procedures. Monitor and keep records.						3. Isolate	
<b>Consequence Scale:</b>								4. Engineering	
Consequence		People (injury/illness)		Project / Assets		Compliance / Reputation		5. Administrative	
Catastrophic		Fatality or permanent total disability		project shutdown		Significant regulator intervention; criminal prosecution		6. PPE	
Major		Serious injury/illness (hospital > 5 days)		critical delay		Improvement notice; major media coverage		Always document <b>why</b> a lower-order control is accepted if elimination or substitution is not reasonably practicable.	
Moderate		Medical-treatment injury; lost-time > 1 day		moderate delay		Minor breach; adverse client comment		<i>aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.</i>	
Minor		First-aid only, no lost time		negligible delay		Isolated non-conformance			
Insignificant		No injury		no schedule impact		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	Spilled fluid, Slippery surfaces	4A	<ul style="list-style-type: none"> <li>- Ensure all personal protective equipment (PPE) is available and in good condition.</li> <li>- Conduct a toolbox talk to outline the risks associated with the task.</li> <li>- Clear the work area of unnecessary personnel.</li> <li>- Ensure proper signage is used to alert others of the work area.</li> <li>- Check and confirm that spill kits are accessible.</li> <li>- Verify communication devices are functional.</li> <li>- Ensure all workers are trained in emergency procedures.</li> <li>- Inspect the containment area for any pre-existing damage.</li> <li>- Ensure adequate ventilation is in place.</li> <li>- Confirm that all personnel understand the procedures.</li> </ul>	3H
2. Identifying the Source of the Leak	Chemical exposure, Evaporation	3H	<ul style="list-style-type: none"> <li>- Wear appropriate PPE including eye protection and gloves.</li> <li>- Stop the leak at the source of the equipment.</li> <li>- Minimize exposure time to the chemical.</li> <li>- Ensure adequate ventilation is maintained.</li> <li>- Keep an eye-washing station accessible.</li> <li>- Adhere to safety data sheets (SDS) for handling instructions.</li> <li>- Use a buddy system to ensure safety.</li> <li>- Conduct periodic checks on PPE integrity.</li> <li>- Brief team on emergency evacuation routes.</li> <li>- Allow only trained personnel to conduct the operation.</li> </ul>	2M
3. Isolating the Leaking Equipment	Unexpected equipment failure, Increased leak rate	4A	<ul style="list-style-type: none"> <li>- Gradually shut down and isolate the affected equipment.</li> <li>- Use isolation barriers to contain any fluid escape.</li> <li>- Monitor the pressure levels during isolation.</li> <li>- Ensure emergency shut-off procedures are understood.</li> <li>- Regularly inspect the integrity of the containment.</li> <li>- Avoid abrupt actions that might increase leakage.</li> <li>- Ensure all tools are non-sparking and appropriate for the environment.</li> <li>- Collaborate with qualified engineers as needed.</li> </ul>	2M

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			- Use lockout-tagout (LOTO) procedures appropriately. - Review the shutdown procedures thoroughly.	
4. Draining the Contents Safely	Spilling during transfer, Equipment malfunction	3H	[Redacted Control Measures]	1L
5. Cleaning the Spill Area	Chemical inhalation, Skin contact	3H	[Redacted Control Measures]	2M
6. Inspection and Repair of Equipment	Injury from sharp edges, Electrocution	3H	[Redacted Control Measures]	1L

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7. Restarting Operations	Unexpected equipment startup, Residual leaks	3H		2M
8. Monitoring for Recurrence	Unnoticed small leaks, Com fatigue	3H		1L
9. Reviewing Safety Procedures	Overlooked safety gaps, Compliance lapses	3H		2M

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10. Storing Equipment and Materials Safely	Material degradation, Theft or vandalism	3H		2M
11. Employee De-briefing	Miscommunication, Psychological stress	2M		1L
12. Reporting and Documentation	Data loss, Information inaccuracies	3H		1L

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13. Emergency Preparedness	Unplanned incidents, Incomplete training	4A		2M
14. Transport of Hazardous Materials	Spillage during transit, Exposure to hazardous materials	4A		2M
15. Continuous Improvement	Stagnation in safety protocols, Resistance to change	3H		1L

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			<div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	

SAMPLE



## 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 IF ANY STATE THAT 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>

### Victoria

Occupational Health and Safety Act 2004

Occupational Health and Safety Regulations 2017

Legislation VIC: <https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and-regulations>

Codes of Practice VIC: <https://www.worksafe.vic.gov.au/compliance-codes-and-codes-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/legislation>

Codes of Practice NSW: <https://www.safework.nsw.gov.au/resource-library/list-codes-of-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>

### Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulations 2011

Legislation NT: <https://worksafe.nt.gov.au/laws-and-compliance/workplace-safety-laws>

Codes of Practice NT: <https://worksafe.nt.gov.au/laws-and-compliance/codes-of-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

### 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/workplaces/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.