

Reparations Of Air Leakage In Airless Sprayers Risk Assessment

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

THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THIS 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			Elimination Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	Substitution Replace the hazard.	
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE	3H HIGH	Review before work starts.	Isolation Isolate People from the hazard	
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	2M MODERATE	Ensure control measures in place.	Engineering Isolate the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	Monitor and keep records.	Administrative Change	
								PPE	
Risk Rating & Required Action:								Notes on Hierarchy of Controls:	
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	
								4. Engineering	
								5. Administrative	
								6. PPE	
Consequence Scale:								Always document why a lower-order control is accepted if elimination or substitution is not reasonably practicable.	
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				
								<i>aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.</i>	

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	Tripping over tools, Slipping on wet surfaces	3H	<ul style="list-style-type: none"> - Ensure all tools are placed in designated areas - Use warning signs for wet areas - Conduct a pre-work inspection - Wear non-slip footwear - Keep work area tidy and organised - Limit access to work area to necessary personnel - Ensure adequate drainage to avoid water accumulation - Provide training on hazard awareness - Conduct toolbox talks prior to commencement - Develop a site-specific safety management plan 	2M
2. Identification of Air Leaks	Inhalation of fumes, Eye exposure to high-pressure air	4H	<ul style="list-style-type: none"> - Wear appropriate PPE such as masks and goggles - Ensure proper ventilation in the working area - Use low pressure testing methods where possible - Ensure all workers are trained in using detection equipment - Implement emergency response procedures - Limit exposure time to potentially harmful environments - Use barriers to control air spray direction - Provide first-aid kits accessible to workers - Follow manufacturer guidelines for detection equipment - Regular maintenance of detection equipment 	2M
3. Equipment Isolation	Electrical shock, Unexpected equipment activation	4A	<ul style="list-style-type: none"> - Implement lockout/tagout procedures - Verify equipment is de-energised before commencing maintenance - Use insulated tools for electrical isolation - Ensure all personnel are trained in lockout/tagout - Display warning notices at isolation points - Conduct equipment checks to confirm isolation - Establish a permit-to-work system - Isolate power sources as per guidelines 	1L

<p>Chemical sealants, Contact</p>	<p>3H</p>	<p>- Use signage to indicate isolation status</p>
<p>un, Pressurised air</p>	<p>4A</p>	

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7. Inspection and Testing	Equipment failure, Incorrect calibration	3H		1L
8. Documentation	Inaccurate records, Incomplete records	2M		1L
9. De-isolation of Equipment	Reactivation of uncontrolled energy, Failure to remove all isolations	4A		2M

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10. Post-Operation Review	Omitted errors, Non-compliance with best practices	3H		1L
11. Training and Competency Assessment	Insufficient knowledge, Time pressure to complete tasks	3H		1L
12. Stakeholder Communication	Miscommunication, Delayed information flow	3H		1L

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13. Emergency Preparedness	Unawareness of emergency procedures, Inadequate emergency equipment	4A		1L
14. Environmental Protection	Spillage of harmful substances, Environmental compliance breaches	3H		2M
15. Equipment Maintenance	Wear and tear, Improper use	3H		1L

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			<div>1. Implement a comprehensive safety training program for all personnel involved in the process, covering proper handling procedures, PPE requirements, and emergency response protocols.</div> <div>2. Establish strict access control to the work area, ensuring only authorized and trained personnel are permitted entry.</div> <div>3. Conduct regular safety audits and inspections to identify and address potential hazards or unsafe practices.</div> <div>4. Implement a clear and concise communication system, including standardized hand signals and verbal cues, to ensure all personnel are aware of ongoing activities and potential risks.</div> <div>5. Develop and enforce a strict schedule for equipment maintenance and inspection, ensuring all machinery is in good working order and free from defects.</div> <div>6. Establish a robust incident reporting and investigation system, encouraging personnel to report any near misses or safety concerns immediately.</div> <div>7. Implement a comprehensive PPE program, ensuring all personnel are provided with and properly use the required personal protective equipment.</div> <div>8. Develop and enforce a strict housekeeping protocol, ensuring the work area is kept clean, organized, and free from trip hazards.</div> <div>9. Establish a clear and concise emergency response plan, including designated evacuation routes, assembly points, and roles for personnel in the event of an emergency.</div> <div>10. Implement a comprehensive risk assessment process, identifying potential hazards and evaluating the associated risks to determine appropriate control measures.</div>	
16. Health Monitoring	Exposure to hazardous substances, Failure to detect health issues on time	3H	<div>1. Implement a comprehensive health monitoring program, including regular medical examinations and blood tests, to detect any potential health issues early.</div> <div>2. Establish strict PPE requirements, ensuring all personnel are provided with and properly use the required personal protective equipment to minimize exposure to hazardous substances.</div> <div>3. Develop and enforce a strict ventilation protocol, ensuring adequate airflow is maintained throughout the work area to reduce the concentration of hazardous substances.</div> <div>4. Implement a comprehensive training program, educating personnel on the health risks associated with the substances and the importance of proper handling procedures.</div> <div>5. Establish a clear and concise communication system, ensuring all personnel are aware of the health risks and the importance of reporting any symptoms or concerns.</div> <div>6. Develop and enforce a strict schedule for equipment maintenance and inspection, ensuring all ventilation systems and PPE are in good working order.</div> <div>7. Implement a comprehensive incident reporting and investigation system, encouraging personnel to report any health issues or safety concerns immediately.</div> <div>8. Establish a robust risk assessment process, identifying potential health hazards and evaluating the associated risks to determine appropriate control measures.</div> <div>9. Develop and enforce a strict housekeeping protocol, ensuring the work area is kept clean and free from any potential health hazards.</div> <div>10. Implement a comprehensive emergency response plan, including designated evacuation routes and assembly points, to ensure a swift and safe response in the event of an emergency.</div>	2M
17. Continuous Improvement	Complacency, Resistance to change	2M	<div>1. Implement a comprehensive training program, focusing on the importance of continuous improvement and the need to embrace change.</div> <div>2. Establish a clear and concise communication system, ensuring all personnel are aware of the goals and objectives of the continuous improvement process.</div> <div>3. Develop and enforce a strict schedule for regular meetings and discussions, providing a platform for personnel to share ideas, concerns, and suggestions for improvement.</div> <div>4. Implement a comprehensive incentive system, rewarding personnel for their contributions to the continuous improvement process.</div> <div>5. Establish a robust risk assessment process, identifying potential risks associated with complacency and resistance to change, and evaluating the associated risks to determine appropriate control measures.</div> <div>6. Develop and enforce a strict housekeeping protocol, ensuring the work area is kept clean and organized to facilitate the continuous improvement process.</div> <div>7. Implement a comprehensive incident reporting and investigation system, encouraging personnel to report any issues or concerns related to complacency or resistance to change.</div> <div>8. Establish a clear and concise communication system, ensuring all personnel are aware of the progress and results of the continuous improvement process.</div> <div>9. Develop and enforce a strict schedule for equipment maintenance and inspection, ensuring all machinery is in good working order to support the continuous improvement process.</div> <div>10. Implement a comprehensive PPE program, ensuring all personnel are provided with and properly use the required personal protective equipment to maintain a safe work environment.</div>	1L

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18. Incident Reporting	Delayed reporting, Incomplete incident data	3H	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	1L

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.