

## Extraction Of Batteries 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	4A ACUTE	DO NOT PROCEED	<b>Elimination</b> Remove the hazard.		
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE			<b>Substitution</b> 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.	<b>Engineering</b> Isolate the hazard
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH			1L LOW	Monitor and keep records.	<b>Administrative</b> Change
								<b>PPE</b>		
<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. <b>Eliminate</b>	
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	
<b>Consequence Scale:</b>									Always document <b>why</b> a lower-order control is accepted if elimination or substitution is not reasonably practicable.	
Consequence	People (injury/illness)		Project / Assets		Compliance / Reputation				<i>aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.</i>	
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					

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	slippery surfaces, trip hazards	3H	<ul style="list-style-type: none"> <li>- Conduct a site inspection to identify slippery surfaces.</li> <li>- Clean up and remove any visible hazards.</li> <li>- Wear appropriate non-slip footwear.</li> <li>- Ensure all walkways are clear of obstacles.</li> <li>- Place warning signage near wet areas.</li> <li>- Train staff on hazard identification.</li> <li>- Maintain a clear communication channel among team members.</li> <li>- Allocate enough time for task preparation.</li> <li>- Verify all equipment is ready and safe for use.</li> <li>- Use safety mats in high-risk areas.</li> </ul>	2M
2. Equipment Inspection	damaged tools, inadequate PPE	3H	<ul style="list-style-type: none"> <li>- Inspect all tools for damage before use.</li> <li>- Ensure maintenance schedules are adhered to.</li> <li>- Repair damaged tools immediately.</li> <li>- Verify that all PPE is available and in good condition.</li> <li>- Conduct regular training on equipment use.</li> <li>- Use only tools that are appropriate for the task.</li> <li>- Keep a maintenance log for all tools.</li> <li>- Ensure spare PPE is readily available.</li> <li>- Conduct a briefing on PPE usage.</li> <li>- Implement a system for reporting faulty tools.</li> </ul>	2M
3. Disconnecting Batteries	electric shock, battery acid leaks	4A	<ul style="list-style-type: none"> <li>- Use insulated tools to disconnect batteries.</li> <li>- Wear acid-resistant gloves and eye protection.</li> <li>- Ensure power supply is switched off before disconnection.</li> <li>- Conduct a risk assessment before starting work.</li> <li>- Provide training on safe disconnection procedures.</li> <li>- Keep a first aid kit nearby.</li> <li>- Maintain a safe distance from the battery.</li> <li>- Use appropriate signage to warn others of the work area.</li> </ul>	2M

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			<ul style="list-style-type: none"> <li>- Regularly inspect gloves and tools for damage.</li> <li>- Have a trained first aider on site.</li> </ul>	
4. Battery Removal	manual handling injuries, crushing hazards	4A	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	2M
5. Transporting Batteries	dropping batteries vehicle collision	3H	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	1L
6. Storage of Batteries	fire risk, chemical spills	3H	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	2M

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7. Cleaning Work Area	chemical exposure, slips	2M		1L
8. Disposal of Waste	incorrect waste segregation environmental contamination	4A		2M
9. Handling Spills	chemical burns, slip hazards	4A		2M

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10. Emergency Procedures	inadequate evacuation routes, lack of emergency training	4A		2M
11. Training and Induction	inadequate training, lack of awareness	3H		1L
12. Documentation	incomplete records, data breaches	3H		1L

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13. Communication	miscommunication, unclear instructions	3H		1L
14. Monitoring Compliance	non-compliance, missing documents	4A		2M
15. Continuous Improvement	stagnation in safety practices, insufficient updates to processes	4A		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.