

Inflatable Liferrafts Operations 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			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:

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.
3H	Review and approve additional controls before task starts. Senior supervisor sign-off needed.
2M	Ensure all nominated controls are in place and effective. Proceed with caution; monitor conditions.
1L	Proceed, following standard operating procedures. Monitor 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:

- Eliminate**
- Substitute
- Isolate
- Engineering
- Administrative
- 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	equipment failure, lack of training	3H	<ul style="list-style-type: none"> - Ensure comprehensive training programs for all personnel - Regular preventative maintenance checks on aircrafts - Provide detailed operation manuals for review - Conduct periodic drills to reinforce training - Verify certifications and qualifications of operators - Establish a clear communication protocol - Maintain an updated logbook of all maintenance activities - Ensure availability of backup equipment - Regularly review and update training materials - Conduct risk assessment before operations 	2M
2. Transportation	accidental damage, incorrect loading	3H	<ul style="list-style-type: none"> - Use protective coverings for liferafts during transport - Secure liferafts firmly onto transport vehicles - Train personnel on proper loading and unloading procedures - Conduct double checks on loading methods - Use appropriate lifting equipment to prevent manual handling - Ensure vehicles used for transport are well-maintained - Implement checklist for transportation of liferafts - Provide signage for transport vehicles carrying liferafts - Limit speed of vehicles during transport - Monitor transportation conditions via GPS 	2M
3. Storage	environmental exposure, theft	3H	<ul style="list-style-type: none"> - Store liferafts in a secure, indoor location - Regularly inspect storage facilities for environmental controls - Install security measures such as cameras and alarms - Maintain a logbook for all entries into storage areas - Implement access control systems - Periodically audit storage and security protocols - Ensure climate control systems are functioning - Use protective coverings to shield from dust 	1L

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			<ul style="list-style-type: none"> - Label all stored items clearly - Reinforce awareness of security procedures among staff 	
4. Inspection	incomplete checks, equipment malfunction	3H	<ul style="list-style-type: none"> - Conduct thorough visual inspection of all equipment before use - Verify that all safety features are functioning correctly - Ensure that all personnel are properly trained and briefed - Perform regular maintenance and servicing of equipment - Use appropriate PPE at all times - Establish clear communication protocols - Conduct pre-launch safety checks - Monitor equipment performance during operation - Have a contingency plan in place - Ensure that all personnel are aware of emergency procedures - Conduct post-launch debriefing 	2M
5. Inflation	bursting, incorrect pressure	4A	<ul style="list-style-type: none"> - Check pressure gauge before inflation - Inflate slowly and evenly - Stop inflation if you hear a hissing sound or see a leak - Do not over-inflate - Check for damage or wear before inflation - Use appropriate inflation technique - Monitor pressure throughout the process - Stop inflation if the object becomes distorted or uneven - Do not touch the object while it is inflating - Have a fire extinguisher nearby - Ensure that all personnel are aware of the risks - Conduct a safety check before inflation 	2M
6. Launching	capsizing, collision	4A	<ul style="list-style-type: none"> - Ensure that the launch area is clear of obstacles - Check that the launch system is properly set up - Brief all personnel on the launch procedure - Monitor the launch closely - Have a contingency plan in place - Ensure that all personnel are aware of the risks - Conduct a safety check before launch - Do not touch the launch system while it is operating - Stop the launch if you see a problem - Have a fire extinguisher nearby - Ensure that all personnel are aware of the risks 	2M

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7. Retrieval	damage from retrieval, operator injury	3H		1L
8. Deflation	rapid deflation, material damage	3H		2M
9. Packaging	incorrect packaging, material strain	3H		2M

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			<div></div> <div></div> <div></div> <div></div>	
10. Documentation	incomplete records, data loss	2M	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	1L
11. Maintenance	missed maintenance, incorrect parts	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	1L
12. Training	inadequate knowledge, skill gaps	3H	<div></div> <div></div> <div></div> <div></div> <div></div>	2M

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13. Communication	miscommunication, delays	2M		1L
14. Emergency Response	hesitation, imprecise communication	4A		2M
15. Incident Reporting	non-reporting, inaccurate details	3H		2M

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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.