

## Fireworks Operation And Handling For Show 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			<b>Elimination</b> Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	<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				
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	Misuse of equipment, Exposure to hazardous materials	3H	<ul style="list-style-type: none"> <li>- Conduct thorough training for all operators.</li> <li>- Ensure all equipment is in proper working order.</li> <li>- Use personal protective equipment (PPE), such as gloves and goggles.</li> <li>- Label all hazardous materials clearly.</li> <li>- Store all materials in a secure, labelled location.</li> <li>- Ensure fire extinguishers and emergency equipment are on hand.</li> <li>- Conduct a risk assessment prior to starting work.</li> <li>- Establish a safety check procedure before operation.</li> <li>- Ensure communication devices are operational for emergency situations.</li> <li>- Implement a reporting protocol for any equipment failures.</li> </ul>	2M
2. Transportation of Fireworks	Improper loading causing damage, Exposure to weather conditions	3H	<ul style="list-style-type: none"> <li>- Use specialised, sealed containers for fireworks transport.</li> <li>- Follow legal transportation guidelines for hazardous materials.</li> <li>- Inspect vehicles for safety compliance before loading.</li> <li>- Use appropriate lifting techniques to load safely.</li> <li>- Cover fireworks to protect from weather during transport.</li> <li>- Secure fireworks to prevent movement during transit.</li> <li>- Conduct a pre-departure checklist for transport vehicles.</li> <li>- Plan route to avoid congested areas.</li> <li>- Monitor weather conditions before and during transport.</li> <li>- Notify authorities of transport schedules as required by law.</li> </ul>	2M
3. Site Setup and Security	Unauthorised access, Trip hazards	2M	<ul style="list-style-type: none"> <li>- Secure perimeter with barriers to prevent unauthorised access.</li> <li>- Post warning signs around the site clearly indicating restricted areas.</li> <li>- Use adequate lighting for all pathways and staging areas.</li> <li>- Employ security personnel to monitor site access.</li> <li>- Remove any debris or objects that could cause tripping.</li> <li>- Mark and illuminate any uneven ground or obstacles.</li> <li>- Conduct a site inspection prior to commencement of work.</li> <li>- Implement an access control system with identification checks.</li> </ul>	1L

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
			<ul style="list-style-type: none"> <li>- Brief all personnel on emergency evacuation plans.</li> <li>- Ensure all pathways are clear and unobstructed.</li> </ul>	
4. Storage of Fireworks On-site	Improper storage, Exposure to ignition sources	3H	<ul style="list-style-type: none"> <li>- Store fireworks in a fireproof container.</li> <li>- Store fireworks in a well-ventilated area.</li> <li>- Store fireworks in a cool, dry place.</li> <li>- Store fireworks in a secure location.</li> <li>- Store fireworks in a fireproof container.</li> <li>- Store fireworks in a well-ventilated area.</li> <li>- Store fireworks in a cool, dry place.</li> <li>- Store fireworks in a secure location.</li> <li>- Store fireworks in a fireproof container.</li> <li>- Store fireworks in a well-ventilated area.</li> <li>- Store fireworks in a cool, dry place.</li> <li>- Store fireworks in a secure location.</li> </ul>	2M
5. Equipment Setup and Testing	Electrical faults, Equipment malfunction	3H	<ul style="list-style-type: none"> <li>- Check all equipment for proper operation.</li> <li>- Check all equipment for proper operation.</li> <li>- Check all equipment for proper operation.</li> <li>- Check all equipment for proper operation.</li> <li>- Check all equipment for proper operation.</li> <li>- Check all equipment for proper operation.</li> <li>- Check all equipment for proper operation.</li> <li>- Check all equipment for proper operation.</li> <li>- Check all equipment for proper operation.</li> <li>- Check all equipment for proper operation.</li> <li>- Check all equipment for proper operation.</li> <li>- Check all equipment for proper operation.</li> </ul>	2M
6. Loading Fireworks into Launch Equipment	Misfire, Accidental ignition	4A	<ul style="list-style-type: none"> <li>- Load fireworks into launch equipment carefully.</li> <li>- Load fireworks into launch equipment carefully.</li> <li>- Load fireworks into launch equipment carefully.</li> <li>- Load fireworks into launch equipment carefully.</li> <li>- Load fireworks into launch equipment carefully.</li> <li>- Load fireworks into launch equipment carefully.</li> <li>- Load fireworks into launch equipment carefully.</li> <li>- Load fireworks into launch equipment carefully.</li> <li>- Load fireworks into launch equipment carefully.</li> <li>- Load fireworks into launch equipment carefully.</li> <li>- Load fireworks into launch equipment carefully.</li> </ul>	3H

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
7. Final Checks Before Firing	Communication breakdown, Equipment failure	3H		2M
8. Firing Sequence	Unexpected changes in weather, Misfire of fireworks	4A		3H
9. Post-Show Inspection	Unexploded ordnance, Fire risk from debris	3H		2M

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
10. Debrief and Reporting	Incident overlook, Ineffective communication	2M		1L
11. Dismantling and Packing Equipment	Manual handling injuries, Improper disassembly	3H		2M
12. Materials Disposal	Environmental contamination, Improper waste handling	3H		2M

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
13. Equipment Maintenance	Mechanical failure, Electrical hazards	3H		2M
14. Regulatory Compliance Review	Non-compliance, Unawareness of legal changes	2M		1L
15. Stakeholder Communication	Miscommunication, Inadequate information dissemination	2M		1L

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
			<div></div> <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.