

Detona	ating Explosives Risk Asse	ssment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Eme	
THIS RISK ASSESSM	MENT IS APPROVED BY THE PC	BU ON W PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a pis prepared before the proposed work starts.	person conducting a busine or un	ndertaking PCBL required to ensu	re that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CL	OR PRI. CIL L. CO. TRACTOR I	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project N.			

Version 2.5 Authorised by Review # Review Date:



RISK MATRIX LIKELIHOOD INSIGNIFICANT MINOR MODERATE MAJOR CATASTROPHIC HIERARCHY OF CONTROLS SCORE ACTION Elimination ALMOST 3 HIGH 3 HIGH 4 4 ACUTE ACUTE ACUTE **CERTAIN** Remove the hazard. Substitution 4 4 DO NOT Replace the hazard. LIKELY MODERATE HIGH HIGH ACUTE ACUTE ACUTE ROCEED Isolation Isolate People from the hazard 2 3 4 3H Rev before POSSIBLE MODERATE ACUTE ACUTE LOW HIGH HIGH. work Engineering Isolate the l/Acchanich. Ensure control 2 3 2M istrativ UNLIKELY measures in LOW LOW MODERATE HIGH ACU RATE е place. Chang 2 MODERATE 3 HIGH 1L Monitor and RARE LOW LOW LOW keep records.

Risk Rating & Required Action:

4A	Stop work. The risk is intolerable,	minate the hazard	redesign the activity before proceeding. A Safe Work
	Method Statement (SWMS) or hi	er-level authorisation	is required.
3H	Review and approve additional c	role ask	arts. Senior supervisor sign-off needed.
2M	Ensure all nominated controls are in	prace and efficive	Proceed with caution; monitor conditions.
1L	Proceed, following standard operating	ng procedurer //oni	itor 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:

- 1. Eliminate
- Substitute
- 3. Isolate
- 4. Engineering
- 5. Administrative
- 6. 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	Incorrect handling of equipment, Inadequate personal protective equipment (PPE)	ЗН	- Conduct safety briefing with all personnel involved - Ensure all personnel are trained in explosive foodling - Verify PPE for each person is appropriate and includes as and ear protection - Organise first aid and emergency response to time and on-site - Confirm site exclusion zone care established an acommunical verify communication devices are functioning - Cross-check all comprises for facts - Maintain when records or quipmed inspections - Prendice a checklist formus-detonation advities - Continual licens, and permits are valid	2M
2. Transport of Explosives	Accidental explosion during transport, Unsecured explosive a kent	31	 Use du ignated and source vehicles for transport Use du ignated and source vehicles for transport Use ignated and source vehicles for transport 	2M
3. Storage of Explosives	Fire hazards, Unauthorized access to storage	4A	- Store explosives in compliant and secure facilities - Implement 24-hour surveillance and alarm systems - Ensure storage area is fire-resistant - Maintain clear signage around the storage facility - Regularly inspect and maintain the structural integrity of storage - Limit access to authorised personnel only - Keep comprehensive logs of explosive inventory - Conduct regular drills on explosive response and evacuation	2M



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			- Ensure compatibility of stored materials	
			- Apply temperature and humidity controls	
			- Review storage practices quarterly	
4. On-site Handling	Dropping explosives, Static electricity ignition	зн		1L
5. Charging Explosives	Misfiring due to improper at Exposure to hazards.	3H		2M
6. Setting Detonation Equipment	Faulty detonation circuits, Unauthorized interference	ЗН		1L



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7. Final Check Before Detonation	Human error, Communication failure	3H		2M
8. Detonation	Premature detonation, Blast wave rices	4A		2M
9. Post-Detonation Analysis	Debris from explosions, Residual hazardous materials	3H		2M

Review#



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10. Equipment Inspection and Maintenance	Wear and tear, Failure to detect faults	2M		1L
11. Review and Audit Procedures	Compliance gaps, Record-keepin errors	2M		1L
12. Disposal of Expired Explosives	Chemical instability, Environmental contamination	3H		1L



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13. Emergency Preparedness	Delayed response, Under-preparedness for scenarios	ЗН		1L
14. Environmental Impact Mitigation	Soil and water contamination, Air pollution	4A		2M
15. Communication and Reporting Procedures	Information miscommunication, Data security breaches	3H		1L



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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. ANY STATE OF AT ARE NOT APPLICABLE.

Queensland & Australian Capital Territory

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

 $\label{legislation QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws} \\ \text{Legislation QLD: } \\ \underline{\text{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws}} \\ \\ \underline{\text{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws}} \\ \underline{\text{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-l$

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

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/legislations/

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis > odes-oi racti

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulation 201

Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/wo_place-

Codes of Practice NT: https://worksafe.nt.gov.au/f

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/le

Codes of Practice for SA: https://www.safework.sa.gov.au/work_aces/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.

Victoria

Occupational Health at Safety Act 34

Occupational Health and afety gulations 2017

Legis on VIC: https://www.wksafe.vic.gov.au/occupational-health-and-safety-act-and-

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des on actice VI autros://www.worksafe.vic.gov.au/compliance-codes-and-codes-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

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