

Perform Wireline Perforating 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:								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	Unfamiliarity with equipment, Inadequate safety briefing	3H	<ul style="list-style-type: none"> - Ensure all team members have completed mandatory equipment training - Conduct detailed safety briefing before commencing task - Verify all certification of equipment is up to date - Implement equipment checklist protocols - Assign roles and responsibilities clearly - Review safety data sheets - Ensure availability of emergency contact numbers - Perform site specific risk assessment - Confirm clear communication channels - Tools talk to reinforce tasks and hazards 	2M
2. Transporting Equipment	Loading accidents, Traffic incidents	3H	<ul style="list-style-type: none"> - Use mechanical aids for lifting heavy equipment - Ensure proper training for heavy vehicle operation - Secure loads as per Australian transport guidelines - Plan optimal route to minimise traffic exposure - Inspect vehicles for maintenance issues regularly - Schedule breaks to avoid driver fatigue - Use spotters during loading and unloading - Verify permits and licenses - Implement journey management plans - Install and use reverse alarms 	2M
3. Site Setup	Slip and trip, Incorrect equipment positioning	3H	<ul style="list-style-type: none"> - Conduct site walk to identify and remove hazards - Mark designated walkways clearly - Use non-slip mats where applicable - Position equipment on stable, level surfaces - Ensure emergency exits and pathways are clear - Erect barricades around hazardous zones - Install adequate lighting - Secure loose cables and wires 	2M

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			<ul style="list-style-type: none"> - Wear appropriate PPE including safety boots - Monitor weather conditions for site safety 	
4. Rigging Up	Dropped objects, Equipment failure	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. Wellhead Preparation	Wellhead pressure release, Chemical exposure	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>	2M
6. Pressure Testing	High pressure leaks, Gauge malfunction	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>	2M

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7. Tool Assembly	Pinch points, Incorrect assembly	3H		2M
8. Lowering Tools into Well	Hoist failure, Line & equipment	4A		2M
9. Sequencing Perforation	Incorrect charge placement, Premature detonation	4A		2M

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			<ul style="list-style-type: none"> 1. All personnel must be trained in well control procedures. 2. A well control specialist must be present during all operations. 3. A well control plan must be developed and approved before operations begin. 4. All equipment must be tested and certified before use. 5. All personnel must wear appropriate PPE. 6. All personnel must follow the well control plan. 7. All personnel must be alert and focused during operations. 8. All personnel must communicate clearly and effectively. 9. All personnel must be able to recognize and respond to well control hazards. 10. All personnel must be able to shut down operations in an emergency. 	
10. Perforating Operations	Explosive misfire, Inadequate blowout control	4A	<ul style="list-style-type: none"> 1. All personnel must be trained in blowout control procedures. 2. A blowout control specialist must be present during all operations. 3. A blowout control plan must be developed and approved before operations begin. 4. All equipment must be tested and certified before use. 5. All personnel must wear appropriate PPE. 6. All personnel must follow the blowout control plan. 7. All personnel must be alert and focused during operations. 8. All personnel must communicate clearly and effectively. 9. All personnel must be able to recognize and respond to blowout control hazards. 10. All personnel must be able to shut down operations in an emergency. 	2M
11. Well Logging	Radiation exposure, Electrical hazard	3H	<ul style="list-style-type: none"> 1. All personnel must be trained in radiation safety procedures. 2. A radiation safety specialist must be present during all operations. 3. A radiation safety plan must be developed and approved before operations begin. 4. All equipment must be tested and certified before use. 5. All personnel must wear appropriate PPE. 6. All personnel must follow the radiation safety plan. 7. All personnel must be alert and focused during operations. 8. All personnel must communicate clearly and effectively. 9. All personnel must be able to recognize and respond to radiation safety hazards. 10. All personnel must be able to shut down operations in an emergency. 	1L
12. Retrieval of Tools	Equipment jamming, Lifting accidents	3H	<ul style="list-style-type: none"> 1. All personnel must be trained in equipment operation procedures. 2. A equipment operation specialist must be present during all operations. 3. A equipment operation plan must be developed and approved before operations begin. 4. All equipment must be tested and certified before use. 5. All personnel must wear appropriate PPE. 6. All personnel must follow the equipment operation plan. 7. All personnel must be alert and focused during operations. 8. All personnel must communicate clearly and effectively. 9. All personnel must be able to recognize and respond to equipment operation hazards. 10. All personnel must be able to shut down operations in an emergency. 	2M

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13. Demobilisation	Traffic hazards, Material spilling	3H		2M
14. Equipment Inspection	Hidden defects, Stored equipment hazards	3H		2M
15. Reporting and Documentation	Data inaccuracy, Non-compliance issues	2M		1L

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			<div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	
16. Training and Competence Review	Inadequate training, Skill degradation	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	2M
17. Emergency Response Planning	Inadequate emergency procedures, Communication failures	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	1L
18. Waste Management	Chemical exposure, Environmental contamination	3H	<div></div> <div></div> <div></div>	1L

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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.