

Undertake Wireline Logging 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			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	slips, trips, incorrect equipment setup	3H	<ul style="list-style-type: none"> - Conduct site inspection and remove any tripping hazards - Ensure adequate lighting in work area - Use appropriate footwear with non-slip soles - Confirm all equipment is available and in good working condition - Verify personnel are trained in equipment use - Implement and communicate safety protocols - Establish a designated equipment setup area - Use signage to denote hazardous areas - Perform pre-start safety briefing with all team members - Review safety data sheets for hazardous materials 	2M
2. Transporting Equipment	manual handling injuries, equipment damage	4H	<ul style="list-style-type: none"> - Use trolleys and other equipment to aid handling - Ensure pathways are clear and well-lit - Training on correct lifting techniques - Secure loads properly before moving - Use appropriate personal protective equipment (PPE) - Conduct equipment checks before transport - Designate and mark transport routes - Maintain clear communication during transportation - Assign tasks to personnel according to capability - Schedule transport during low foot-traffic times 	2M
3. Equipment Operation Setup	electrical hazards, incorrect setup procedures	4A	<ul style="list-style-type: none"> - Use equipment according to manufacturer instructions - Inspect all electrical cords and connections - Utilize certified and trained operators - Implement lockout/tagout procedures where applicable - Ensure all equipment is properly grounded - Conduct a setup checklist verification - Provide training on specific equipment to be used - Position equipment to minimise trip hazards 	1L

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			<ul style="list-style-type: none"> - Establish clearly marked operating zones - Schedule regular maintenance and servicing 	
4. Drilling Hole Preparation	dust inhalation, noise	3H	<ul style="list-style-type: none"> - Wear appropriate PPE (respirator, earplugs) - Use dust extraction system - Limit exposure time - Maintain equipment in good condition - Use low noise tools - Establish exclusion zones - Schedule regular maintenance - Use hearing protection - Use dust masks - Use noise barriers - Use soundproofing - Use noise reduction techniques - Use noise reduction equipment - Use noise reduction measures - Use noise reduction strategies - Use noise reduction tactics - Use noise reduction methods - Use noise reduction techniques - Use noise reduction tactics - Use noise reduction methods 	2M
5. Wireline Configuration	wire tension injury, entanglement	4A	<ul style="list-style-type: none"> - Wear appropriate PPE (gloves, safety glasses) - Use proper wireline handling techniques - Avoid sudden movements - Use proper tensioning techniques - Avoid entanglement - Use proper wireline storage - Use proper wireline disposal - Use proper wireline disposal techniques - Use proper wireline disposal methods - Use proper wireline disposal techniques - Use proper wireline disposal tactics - Use proper wireline disposal methods - Use proper wireline disposal techniques - Use proper wireline disposal tactics - Use proper wireline disposal methods - Use proper wireline disposal techniques - Use proper wireline disposal tactics - Use proper wireline disposal methods - Use proper wireline disposal techniques - Use proper wireline disposal tactics - Use proper wireline disposal methods 	1L
6. Powering Up Equipment	electrical shock, equipment failure	4A	<ul style="list-style-type: none"> - Wear appropriate PPE (gloves, safety glasses) - Use proper electrical safety techniques - Avoid contact with live wires - Use proper electrical safety equipment - Use proper electrical safety techniques - Use proper electrical safety methods - Use proper electrical safety techniques - Use proper electrical safety tactics - Use proper electrical safety methods - Use proper electrical safety techniques - Use proper electrical safety tactics - Use proper electrical safety methods - Use proper electrical safety techniques - Use proper electrical safety tactics - Use proper electrical safety methods - Use proper electrical safety techniques - Use proper electrical safety tactics - Use proper electrical safety methods - Use proper electrical safety techniques - Use proper electrical safety tactics 	1L

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7. Calibration of Instruments	inaccurate data, exposure to calibration gases	3H		2M
8. Running Wireline into Drill Hole	equipment malfunction, wireline jam	4A		2M
9. Data Acquisition	data loss, equipment overheating	3H		1L

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10. Retrieving Wireline	manual handling injuries, unexpected wire tension release	4A		2M
11. Completing Data Recording	incorrect data entry, data misinterpretation	3H		1L
12. Equipment Maintenance	sharp tools or equipment parts, chemical exposure	3H		1L

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13. Site Clean-up	exposure to debris, slips due to wet surfaces	3H		1L
14. Decommissioning Equipment	hazardous energy release, improper storage	4A		1L
15. Post-operation Review	lack of incident reporting, insufficient feedback	2M		1L

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16. Final Documentation	loss of documents, data security breach	3H	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	1L

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>

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>

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>

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.

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>

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