

Fix Blowout Preventer Testing 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:

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	Slips, Trips, Falls, Incorrect tools	3H	<ul style="list-style-type: none"> - Ensure all personnel are briefed on the task and associated hazards - Inspect all tools and equipment before use - Use appropriate personal protective equipment (PPE) such as steel-toed boots - Clear the area of any obstacles or debris - Ensure adequate lighting in the work area - Train staff on proper handling techniques - Limit number of personnel in the area to reduce congestion - Conduct a pre-start meeting to discuss hazards and controls - Verify qualifications and competencies of all involved personnel - Establish communication protocols 	2M
2. Verify Pressure Levels	High pressure release due to error	4H	<ul style="list-style-type: none"> - Use pressure relief valves to control unexpected surges - Calibrate pressure gauges before testing - Assign experienced personnel to monitor pressure readings - Ensure all pressure indicators are functional - Establish an emergency pressure release plan - Implement lockout procedures on adjacent equipment - Double-check connections for integrity - Clearly label all pressure points - Restrict access to pressure control systems - Provide training on pressure system management 	2M
3. Install Blowout Preventer (BOP)	Equipment failure, Incorrect installation	4A	<ul style="list-style-type: none"> - Follow manufacturer's installation guidelines - Conduct equipment inspections pre-installation - Use the appropriate lifting techniques and tools - Ensure all installation steps are monitored by a qualified supervisor - Supervise inexperienced workers closely - Validate all connections and joints - Record installation steps for accountability - Provide on-site technical support if needed 	3H

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			<ul style="list-style-type: none"> - Have backup parts available - Train personnel on equipment specifications 	
4. Perform Functional Test	Test failure, Inadequate equipment calibration	3H	<ul style="list-style-type: none"> - Verify equipment calibration before use - Perform test in a controlled environment - Use qualified personnel to perform the test - Follow the test procedure exactly - Record test results and any anomalies - Stop the test if any unsafe conditions are observed - Report test results to the supervisor - Review test results and provide feedback to the operator - Retest if necessary - Document the test results and any corrective actions 	2M
5. Monitor Equipment Performance	Overheating, Unplanned pressure increase	3H	<ul style="list-style-type: none"> - Monitor equipment temperature and pressure continuously - Stop the test if temperature or pressure exceeds safe limits - Report any abnormalities to the supervisor - Investigate the cause of the abnormality - Take corrective action as needed - Document the incident and any corrective actions - Review the test results and provide feedback to the operator - Retest if necessary - Document the test results and any corrective actions 	2M
6. Debrief and Reporting	Data misinterpretation, Lack of thorough documentation	2M	<ul style="list-style-type: none"> - Review test results and provide feedback to the operator - Document the test results and any corrective actions - Report the test results to the supervisor - Review the test results and provide feedback to the operator - Retest if necessary - Document the test results and any corrective actions 	1L

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7. Identify Maintenance Needs	Overlooking critical components, Incorrect prioritisation of maintenance	3H		2M
8. Dispose of Hazardous Waste	Chemical exposure, Environmental contamination	4A		2M
9. Reassemble Worksite	Incorrect reassembly, Equipment damage	3H		2M

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10. Final Inspection	Overlooking defects, Complacency during final check	3H		1L
11. Test Emergency Systems	System malfunctions, False alarms leading to confusion	4A		2M
12. Equipment Dismantle	Mechanical injury, Falling components	3H		2M

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13. Hazard Communication Update	Incomplete information, Delayed updates	2M		1L
14. Workforce Training Review	Skill gaps, Unassessed training needs	3H		2M
15. Data Archiving and Analysis	Data loss, Inaccurate analysis	3H		1L

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16. Post-Operation Feedback	Negative feedback not addressed, Incomplete feedback collection	2M		1L
17. Continuous Improvement	Resistance to change, Improvement initiatives failing	3H		2M
18. Equipment Cleaning	Use of harmful chemicals, Inadequate protective gear	3H		2M

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19. Review and Sign-off	Incomplete review, Miscommunication	2M		1L
20. Storage of Equipment	Improper storage conditions, Equipment degradation	3H		2M

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