

| Bowline  | Tying Under Water Risk As        | sessment                         |                            |
|--|----------------------------------|----------------------------------|----------------------------|
| Business Name:   |                                  | ABN:                             |                            |
| Business Address:  |                                  |                                  |                            |
| Contact Person:  | Phone:                           | Emei                             |                            |
|  |                                  |                                  |                            |
| THIS RISK ASSESSI  | MENT IS APPROVED BY THE PCI      | BU ON PROJECT                    |                            |
| Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts. | person conducting a busine or un | ndertaking PCBU required to ensu | ire that a RISK ASSESSMENT |
| Full Name:   |                                  |                                  |                            |
| Signature:   |                                  | ntle:                            | Date:                      |
| CL   |                                  |                                  |                            |
| UL CL  | OR PRI CIF . CO. RACTORI         | DETAILS                          |                            |
| Client:  |                                  | SCOPE OF                         | WORKS                      |
| Project Name:  |                                  |                                  |                            |
| Project Address:   |                                  |                                  |                            |
| Project Manager:   |                                  |                                  |                            |
| Contact Phone:   |                                  |                                  |                            |
| Date Risk Assessment supplied to Project N.  |                                  |                                  |                            |



| RISK MATRIX  |   |                     |                                       |  |   |   |  |
|--|---|---------------------|---------------------------------------|--|---|---|--|
| LIKELIHOOD   | INSIGNIFICANT                                     | MINOR               | MODERATE MA                           | JOR CATASTROPH                         |   |   | HIERARCHY OF CONTROLS  |
| ALMOST<br>CERTAIN  | 3<br>HIGH   | 3<br>HIGH           |                                       | 4 4<br>JTE ACUTE                       | SCORE   | ACTION                                  | Elimination<br>Remove the hazard.  |
| LIKELY   | 2<br>MODERATE                                     | 3<br>HIGH           | U U U U U U U U U U U U U U U U U U U | 4 4<br>JTE ACUTE                       | 4A<br>ACUTE   | DO NOT<br>PROCEED                       | Substitution<br>Replace the hazard.<br>Isolation   |
| POSSIBLE   | 1<br>LOW  | 2<br>MODERATE       |                                       | 4<br>JTE ACUTE                         | 3H<br>HIGH  | Rev before<br>work art                  | Isolate People from the<br>hazard<br>Engineering<br>Isolate the  |
| UNLIKELY   | 1<br>LOW  | 1<br>LOW            |                                       | 3 Z<br>GH ACU E                        | MC RATE   | Ensure control<br>measures in<br>place. | Activité<br>istrativ<br>e<br>Chang   |
| RARE   | 1<br>LOW  | 1<br>LOW            |                                       | 3<br>GH H. 1                           | 1L<br>LOW   | Monitor and keep records.               | PP   |
| A       Stop work. The risk is intolerable, cominate the hazard predesign the activity before proceeding. A Safe Work Method Statement (SWMS) or higher-level authorisation is required.         3H       Review and approve additional controls for exact ask parts. Senior supervisor sign-off needed.         2M       Ensure all nominated controls are imprace and efficience with caution; monitor conditions.         1L       Proceed, following standard operating procedurer Monitor and keep records. |   |                     |                                       |  |   |   | Notes on Hierarchy of Controls:         Remember to apply controls in the preferred order shown by the coloured pyramid:         1.       Eliminate         2.       Substitute         3.       Isolate         4.       Engineering         5.       Administrative         6.       PPE |
| Consequence  |   | injury/illness)     | Project / Ass                         | Significant regula                     | pliance / Reputat                                       |   | Always document why a lower-order control is accepted if   |
| Catastrophic<br>Major  | Fatality or perma<br>Serious injury/illr<br>days) |                     |                                       | wn prosecution                         | elimination or s  |   | elimination or substitution is not reasonably practicable.<br>aligned with Safe Work Australia's Managing the risk of fatigue at   |
| Moderate   | Medical-treatmen                                  | nt injury; lost-tim | e > 1 moderate dela                   | y Minor breach; ad                     | Vinor breach; adverse client comment work (2023) and IS |   | work (2023) and ISO 45001:2018 clauses 6–8.  |
| Minor  | First-aid only, no                                | lost time           | negligible dela                       | y Isolated non-con                     | formance  |   |  |
|  |   |                     | no schedule                           | Deviation caught and corrected on site |   |   |  |



| JOB STEP            | POTENTIAL HAZARDS                       | IR              | CONTROL MEASURES   | RR               |
|---------------------|---|-----------------|--|------------------|
| SPECIFIC WORK STEPS | HAZARDS THAT MAY ARISE                  | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS   | RESIDUAL<br>RISK |
| 1. Preparation      | Inadequate equipment, Improper training | ЗН              | <ul> <li>Conduct equipment checks before use</li> <li>Ensure all personnel have received proper tracking</li> <li>Use waterproof communication devices furnishructions</li> <li>Allocate time for dry run training</li> <li>Consult with professional differs for expertise</li> <li>Develop a detailed plan for the process</li> <li>Brief all team memory reservement oncy procedures</li> <li>Assign rolecond responsibilities</li> <li>Ensure a standard responsibilities</li> <li>Secure response portective equipment</li> </ul> | 2M               |
| 2. Equipment Setup  | Equipment malfunction and ect setup     | 2               | <ul> <li>Follow nany sturer vestructions for setup</li> <li>Follow nany sturer vestructions for setup</li> <li>Inspury equipment before use</li> <li>Ise checklist for equipment setup verification</li> <li>Have backup equipment available</li> <li>Properly secure all equipment</li> <li>Verify all connections and fittings underwater</li> <li>Perform functionality tests before commencing</li> <li>Ensure all equipment is clearly labelled</li> <li>Regular maintenance of equipment</li> </ul>                              | 2М               |
| 3. Entry into Water | Slippery surface, Unexpected currents   | 4A              | <ul> <li>Use non-slip mats on entry areas</li> <li>Monitor weather and water conditions</li> <li>Employ support personnel to assist entry</li> <li>Conduct a safety briefing on water conditions</li> <li>Use a buddy system for all divers</li> <li>Ensure proper buoyancy control</li> <li>Wear personal flotation devices</li> <li>Use handrails where possible</li> </ul>  | 2M               |



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|-----------------------------|------------------------------------|-----------------|--|------------------|
| SPECIFIC WORK STEPS         | HAZARDS THAT MAY ARISE             | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL<br>RISK |
|                             |                                    |                 | - Communicate clearly during entry                                     |                  |
|                             |                                    |                 | - Evacuate the site if conditions worsen                               |                  |
| 4. Underwater<br>Navigation | Limited visibility, Marine life    | 4A              |  | 2М               |
| 5. Identifying Task Area    | Disorientation, Incurrect location | ЗН              |  | 1L               |
| 6. Bowline Tying            | Entanglement, Incorrect tie        | 4A              |  | 2M               |

Version 2.5



| JOB STEP                | POTENTIAL HAZARDS  | IR              | CONTROL MEASURES   | RR               |
|-------------------------|--|-----------------|--|------------------|
| SPECIFIC WORK STEPS     | HAZARDS THAT MAY ARISE   | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL<br>RISK |
|                         |  |                 |  |                  |
| 7. Knot Inspection      | Knot failure, Undetected faults  | зн              |  | 1L               |
| 8. Returning to Surface | Rapid ascent, Conved services and ascent as a service of the servi | зн              |  | 2М               |
| 9. Equipment Removal    | Injury from heavy equipment,<br>Waterlogging   | 2М              |  | 1L               |



| JOB STEP            | POTENTIAL HAZARDS                                  | IR              | CONTROL MEASURES   | RR               |
|---------------------|--|-----------------|--|------------------|
| SPECIFIC WORK STEPS | HAZARDS THAT MAY ARISE                             | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL<br>RISK |
|                     |  |                 |  |                  |
| 10. Debriefing      | Inadequate feedback, Missed learning opportunities | 2М              |  | 1L               |
| 11. Cleanup         | Environmental pollution, Lost equiprent            | ЗН              |  | 1L               |
| 12. Documentation   | Incomplete records, Inaccurate data entry          | 2М              |  | 1L               |

Version 2.5



| JOB STEP                         | POTENTIAL HAZARDS                          | IR              | CONTROL MEASURES   | RR       |
|----------------------------------|--|-----------------|--|----------|
| SPECIFIC WORK STEPS              | HAZARDS THAT MAY ARISE                     | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL |
| 13. Evaluation of<br>Procedures  | Biased assessment, Procedural gaps         | ЗН              |  | 2M       |
| 14. Training<br>Enhancements     | Skill degradation, Knowle                  | ЗН              |  | 1L       |
| 15. Communication<br>Improvement | Misinformation, Communication<br>breakdown | 2M              |  | 1L       |



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|---------------------|------------------------|-----------------|--|------------------|
| SPECIFIC WORK STEPS | HAZARDS THAT MAY ARISE | INITIAL<br>RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL<br>RISK |
|                     |                        |                 |  |                  |
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|                     | S                      |                 |  |                  |



#### **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 REF  | ERENCES   |
|--|---|
| RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISL  | ATIVE REFERENCES ANY STATE AT ARE NOT APPLICABLE  |
| Queensland & Australian Capital Territory<br>Work Health and Safety Act 2011<br>Work Health and Safety Regulations 2011<br>Legislation QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws<br>Codes of Practice QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice<br>Legislation ACT: https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations<br>Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice | Victoria<br>Occupational Health at Safety Act and 4<br>Occupational Health and onfety or gulations 2017<br>Legistron VIC: <u>https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and-<br/>rulations</u><br>or des of chactice VIC <u>autps://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice</u>               |
| New South Wales         Work Health and Safety Act 2011         Work Health and Safety Regulations 2017         Legislation NSW: <a href="https://www.safework.nsw.gov.au/legal-obligations/legislative">https://www.safework.nsw.gov.au/legal-obligations/legislative</a> Codes of Practice NSW: <a href="https://www.safework.nsw.gov.au/resource-library/lis">https://www.safework.nsw.gov.au/legal-obligations/legislative</a>   | Western Australia<br>Work Health and Safety Act 2020<br>Work Health and Safety Regulations 2022<br>Legislation Western Australia: <u>https://www.commerce.wa.gov.au/worksafe/legislation</u><br>Codes of Practice WA: <u>https://www.commerce.wa.gov.au/worksafe/codes-practice</u>   |
| Northern Territory<br>Work Health and Safety (National Uniform Legislation) Act 2011<br>Work Health and Safety (National Uniform Legislation) Regulation 2011<br>Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/weicplace-serve-laws</u><br>Codes of Practice NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/weicplace-serve-laws</u><br>Codes of Practice NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/weicplace-serve-laws</u>  | Safe Work Australia Links<br>Law and Regulation (All States): <u>https://www.safeworkaustralia.gov.au/law-and-regulation</u><br>Model Codes of Practice: <u>https://www.safeworkaustralia.gov.au/resources-publications/model-<br/>codes-of-practice</u>  |
| South Australia<br>Work Health and Safety Act 2012 (SA)<br>Work Health and Safety Regulations 2012 (SA)<br>Legislation for SA: <u>https://www.safework.sa.gov.au/resources/legislation</u><br>Codes of Practice for SA: <u>https://www.safework.sa.gov.au/work_laces/codes-of-practice#COPs</u><br>Tasmania  | 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   |
| Work Health and Safety Act 2012<br>Work Health and Safety (Transitional and Consequential Provisions) Act 2012<br>Work Health and Safety Regulations 2012<br>Work Health and Safety (Transitional) Regulations 2012<br>Legislation for TAS: <u>https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations</u><br>Codes of Practice for TAS: <u>https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice</u>   | <ul> <li>Managing the risk of falls at workplaces</li> <li>Hazardous manual tasks</li> <li>Managing the risk of falls in housing construction</li> <li>Managing electrical risks in the workplace</li> <li>Demolition work</li> <li>Excavation work</li> <li>Work health and safety consultation, cooperation and coordination</li> </ul> |
| 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.  | <ul> <li>Work health and safety consultation, cooperation and coordination</li> <li>Managing the work environment and facilities</li> <li>How to manage work health and safety risks</li> <li>Managing risks of plant in the workplace</li> <li>Construction work</li> </ul>  |