

| Utilise  | e An Arc Welder Risk Asses       | ssment                           |                           |
|--|----------------------------------|----------------------------------|---------------------------|
| Business Name:   |                                  | ABN:                             |                           |
| Business Address:  |                                  |                                  |                           |
| Contact Person:  | Phone:                           | Emai                             |                           |
|  |                                  |                                  |                           |
| THIS RISK ASSESSI  | MENT IS APPROVED BY THE PC       |                                  |                           |
| 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 | re that a RISK ASSESSMENT |
| Full Name:   |                                  |                                  |                           |
| Signature:   |                                  | ntle:                            | Date:                     |
| CL   |                                  | 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   |
| Risk Rating & Required Action:         4A       Stop work. The risk is intolerable, cominate the hazard predesign the activity before proceeding. A Safe Work Method Statement (SWMS) or his er-level authorisatic is required.         3H       Review and approve additional corrols in prace and efficiency. Proceed with caution; monitor conditions.         2M       Ensure all nominated controls are in-prace and efficiency. Proceed with caution; monitor conditions.         1L       Proceed, following standard operating procedures Monitor and keep records.         Consequence Scale: |   |                     |                                       |  |   | 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<br>ator intervention; c |  | Always document why a lower-order control is accepted if   |
| Catastrophic<br>Major  | Fatality or perma<br>Serious injury/illr<br>days) |                     |                                       | wn prosecution                         | tice; major media                         |  | 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                     | Minor breach; adverse client comment      |  | 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             | Electric shock, Fire risk               | 4A              | <ul> <li>Ensure all electrical connections are properly insulated.</li> <li>Verify voltage settings are compatible with eccument.</li> <li>Inspect cables and connectors for damage.</li> <li>Remove flammable materials from the work to a</li> <li>Setup fire extinguishers nearby.</li> <li>Ensure all personnel are properly trained.</li> <li>Ensure adequatements.</li> <li>Consult equipment manuation setup instructions.</li> <li>Schneile register equipment inspection.</li> <li>Imply that a lock system.</li> </ul>                               | 2М               |
| 2. Equipment<br>Inspection | Equipment failure, Contract h live wire | 21              | <ul> <li>Perfort a viewal inspection for physical damages.</li> <li>Pheck the integray of the electrode holder.</li> <li>Verny the condition of protective gear.</li> <li>Pest equipment functions without load first.</li> <li>Use insulated tools for inspection.</li> <li>Conduct regular maintenance as per manufacturer guidelines.</li> <li>Ensure all covers and guards are in place.</li> <li>Keep inspection checklist updated.</li> <li>Verify the expiration date of safety inspection tags.</li> <li>Store inspection reports properly.</li> </ul> | 2M               |
| 3. Setting Up<br>Workspace | Tripping hazards, Restricted movement   | 2M              | <ul> <li>Organise cables and hoses to prevent tripping.</li> <li>Use cable ties to secure loose wiring.</li> <li>Clearly mark walkways and working areas.</li> <li>Ensure enough space is allocated for movement.</li> <li>Remove unnecessary tools from the area.</li> <li>Keep the floor free of debris.</li> <li>Ensure good lighting in the area.</li> <li>Follow layout plan for equipment placement.</li> </ul>  | 1L               |



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|                        |                                     |                 | - Install warning signs where needed.                                  |                  |
|                        |                                     |                 | - Check fire exits are unobstructed.                                   |                  |
| 4. PPE Utilisation     | Inadequate protection, Burns        | ЗН              |  | 2M               |
| 5. Power Up Equipment  | Unexpected operation, Arc eye       | 44              |  | 2M               |
| 6. Performing the Weld | Fume inhalation, Radiation exposure | 4A              |  | 2M               |



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| 7. Shut Down<br>Equipment   | Residual electricity, Cooling delays | ЗН              |  | 1.               |
| 8. Cleaning Up<br>Workspace | Sharp objects, Charles Course        | ₽M              |  | 1L               |
| 9. Storing Equipment        | Improper storage, Potential damage   | 2M              |  | 1L               |



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|                                    |  |                 |  |                  |
| 10. Final Review and Documentation | Incomplete records, Missed hazards           | 2M              |  | 1L               |
| 11. Maintenance<br>Scheduling      | Unplanned downtime, Machinery<br>malfunction | ЗН              |  | 2M               |
| 12. Team Briefing                  | Communication errors, Misunderstood<br>tasks | 2M              |  | 1L               |



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|--------------------------------|--|-----------------|--|------------------|
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| 13. Monitoring and<br>Feedback | Unaddressed safety concerns, Declining performance     | 2М              |  | 1L               |
| 14. Emergency<br>Preparedness  | Inadequate response plans, Papir<br>during emergencies | ЗН              |  | 2M               |
| 15. Continuous<br>Improvement  | Outdated practices, Resistance to change               | 2M              |  | 1L               |



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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   |   |  |  |  |  |  |
|---|---|--|--|--|--|--|
| RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE 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>Octopational Health an estate vice of a constraint of the second secon |  |  |  |  |  |
| 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 2015<br>Legislation NT: <u>https://worksafe.nt.gov.au/laws-and-compliance/weiplace-sector-laws</u><br>Codes of Practice NT: <u>https://worksafe.nt.gov.au/formediatestations/compliance/weiplace-sector-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_aces/codes-of-practice#COPs</u>  | 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 - Einst eid in the workplace  |  |  |  |  |  |
| 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: <a href="https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations">https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations</a> Codes of Practice for TAS: <a href="https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice">https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice</a> | <ul> <li>First aid in the workplace</li> <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 eaferty consultation, construction 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>  |  |  |  |  |  |