

Cleanup After Welding 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:

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	Burns, Electric shock	3H	<ul style="list-style-type: none"> - Conduct a risk assessment prior to starting the task. - Ensure all PPE is available and in good condition, including gloves and face shields. - Set up welding screens to protect others from welding arc light. - Verify electrical equipment is tested and tagged. - Establish a secure and dry workplace to prevent accidental shock. - Ensure emergency contact numbers are clearly displayed. - Conduct a pre-job meeting with all workers to identify potential hazards. - Ensure availability of first aid kits. - Confirm emergency stop buttons are functional. - Make sure all operatives are competently trained. 	2M
2. Isolation	Exposure to electrical shock, Gas leaks	3H	<ul style="list-style-type: none"> - Disconnect electrical power sources before beginning work. - Check for any gas leaks using a leak detector. - Ensure machinery is isolated and locked out from the main power source. - Use equipment tags to show systems are under maintenance. - Verify proper ventilation to remove any accumulated gases. - Wear PPE, including insulated gloves and eye protection. - Train all personnel in isolation procedures. - Regularly review and update isolation procedures. - Ensure no flammable materials are present in the isolation zone. - Implement a buddy system to verify isolation. 	1L
3. Area Setup	Trip hazards, Fire hazards	4A	<ul style="list-style-type: none"> - Remove any unnecessary items from the work area. - Use appropriate signage to indicate restricted areas. - Ensure fire extinguishers are in place and accessible. - Maintain clear walkways around the working zone. - Conduct a daily inspection of the work area before operations. - Designate only one entrance and exit to control area access. - Store welding materials safely and away from paths. - Install flashback arrestors on gas cylinders. 	2M

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			<ul style="list-style-type: none"> - Have spill kits available for immediate use. - Clearly mark the boundaries of the welding zone. 	
4. PPE Check	Inadequate protection, Contamination	3H	<ul style="list-style-type: none"> - Wear appropriate PPE (welding mask, gloves, apron, etc.) - Ensure all PPE is in good condition and properly maintained - Check for contamination on PPE and clean if necessary - Verify that all PPE is correctly worn and secured - Perform a final check before starting work - Report any issues with PPE to the supervisor immediately - Keep PPE clean and free of damage - Store PPE properly when not in use - Replace PPE as needed - Ensure PPE is suitable for the task - Check for any signs of wear or damage - Verify that PPE is compatible with other equipment - Perform a final check before starting work - Report any issues with PPE to the supervisor immediately - Keep PPE clean and free of damage - Store PPE properly when not in use - Replace PPE as needed - Ensure PPE is suitable for the task - Check for any signs of wear or damage - Verify that PPE is compatible with other equipment 	1L
5. Tool Inspection	Faulty equipment, unintentional start-up	4A	<ul style="list-style-type: none"> - Inspect all tools and equipment before use - Ensure all tools are in good condition and properly maintained - Check for any signs of wear or damage - Verify that all tools are compatible with the task - Perform a final check before starting work - Report any issues with tools to the supervisor immediately - Keep tools clean and free of damage - Store tools properly when not in use - Replace tools as needed - Ensure tools are suitable for the task - Check for any signs of wear or damage - Verify that tools are compatible with other equipment - Perform a final check before starting work - Report any issues with tools to the supervisor immediately - Keep tools clean and free of damage - Store tools properly when not in use - Replace tools as needed - Ensure tools are suitable for the task - Check for any signs of wear or damage - Verify that tools are compatible with other equipment 	1L
6. Welding Cleanup	Inhalation of fumes, Hot surfaces	3H	<ul style="list-style-type: none"> - Wear appropriate PPE (welding mask, gloves, apron, etc.) - Ensure all PPE is in good condition and properly maintained - Check for contamination on PPE and clean if necessary - Verify that all PPE is correctly worn and secured - Perform a final check before starting work - Report any issues with PPE to the supervisor immediately - Keep PPE clean and free of damage - Store PPE properly when not in use - Replace PPE as needed - Ensure PPE is suitable for the task - Check for any signs of wear or damage - Verify that PPE is compatible with other equipment - Perform a final check before starting work - Report any issues with PPE to the supervisor immediately - Keep PPE clean and free of damage - Store PPE properly when not in use - Replace PPE as needed - Ensure PPE is suitable for the task - Check for any signs of wear or damage - Verify that PPE is compatible with other equipment 	2M

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7. Waste Disposal	Environmental contamination, Physical injury	3H		1L
8. Final Inspection	Missed hazards, Incomplete sign-off	2M		1L
9. Communication	Information delays, Miscommunication	2M		1L

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10. Training and Competency Verification	Lack of training, Improper procedures	3H		1L
11. Health Monitoring	Exposure to harmful substances, Overexertion	3H		1L
12. Emergency Planning	Inadequate response, Delayed evacuation	4A		1L

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13. Ventilation	Suffocation, Accumulation of toxic gases	4A		1L
14. Lighting	Reduced visibility, Glare issues	2M		1L
15. Work Scheduling	Prolonged exposure, Fatigue	4A		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.