

Electro	-Fusion Jointing Risk Asse	essment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Ema.	
THIS RISK ASSESSM	MENT IS APPROVED BY THE PC	BU ON W PROJECT	
Under the Work Health and Safety Regulation (WHS Regulation), a pis 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:		ritle:	Date:
CL	OR PRI. CIL L. CO. TRACTOR I	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project Iv			

Version 2.5 Authorised by Review # Review Date:



RISK MATRIX LIKELIHOOD INSIGNIFICANT MINOR MODERATE MAJOR CATASTROPHIC HIERARCHY OF CONTROLS SCORE ACTION Elimination ALMOST 3 HIGH 3 HIGH 4 4 ACUTE ACUTE ACUTE **CERTAIN** Remove the hazard. Substitution 4 4 DO NOT Replace the hazard. LIKELY **MODERATE** HIGH HIGH ACUTE ACUTE ACUTE ROCEED Isolation Isolate People from the hazard 2 3 4 3H Rev before POSSIBLE MODERATE ACUTE ACUTE LOW HIGH HIGH. work Engineering Isolate the l/Acchanich. Ensure control 2 3 2M istrativ UNLIKELY measures in LOW LOW MODERATE HIGH ACU RATE е place. Chang 2 MODERATE 3 HIGH 1L Monitor and RARE LOW LOW LOW keep records.

Risk Rating & Required Action:

4A	Stop work. The risk is intolerable,	minate the hazard	redesign the activity before proceeding. A Safe Work
	Method Statement (SWMS) or hi	er-level authorisation	is required.
3H	Review and approve additional c	role ask	arts. Senior supervisor sign-off needed.
2M	Ensure all nominated controls are in	prace and efficive	Proceed with caution; monitor conditions.
1L	Proceed, following standard operating	ng procedurer //oni	itor 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:

- 1. Eliminate
- Substitute
- 3. Isolate
- 4. Engineering
- 5. Administrative
- 6. 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 and trips, incorrect tool selection	3H	- Conduct site inspection for hazards - Use appropriate footwear with non-slip soles - Ensure adequate lighting - Select appropriate tools for the job - Provide training on tool use - Establish a clean and organism work area - Clear unnecess complement works from site - Use signage of indicate work area mundaric - Check tools for afety compliance - Ensure are sonner use appropriate personal protective equipment (PPE)	2M
2. Gathering Materials	manual handling injuries incorrect materials used	31	- Use my channal aids wheavy items - cain workers in proper lifting techniques Vering a perials against specification list use labels to identify materials - Maintain clear and accessible storage areas - Implement buddy system for heavy lifts - Provide protective gloves and other necessary PPE - Establish materials checklist - Use anti-fatigue mats where necessary - Supervise material selection to ensure compliance	2M
3. Setting Up Work Area	electrical hazards, insufficient workspace	3H	- Use insulated electrical equipment - Ensure all electrical tools are PAT tested - Maintain clear access to and from workspace - Use barriers to demarcate work zone - Supply adequate lighting - Ensure sufficient workspace around each task - Provide surge protectors as necessary - Check power tools for damage or wear	2M



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			- Train staff in electrical safety protocols	
			- Ensure all tools are compatible with work area electrical standards	
4. Inspecting Pipes and Fittings	damage from improper handling, sharp edges	3H		1L
5. Cleaning Pipe Ends	exposure to clean chemicals, eye injuries	4A		2M
6. Aligning Pipes and Fittings	incorrect alignment leading to joint failure, pinched fingers	ЗН		2M



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7. Clamping	incorrect clamping pressure, tool malfunction	3H		2M
8. Setting Fusion Parameters	incorrect paramete aput overheating	3Н		2M
9. Pre-Heating	excessive heat exposure, burns	зн		2M



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10. Fusing Process	electrical shock, joint failure	4A		2M
11. Cooling Down	premature handling of hot joints, bur	ЗН		2M
12. Removing Clamps	tool mishandling, falling components	ЗН		2M



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13. Inspecting the Joint	incomplete fusion, visible defects	3Н		1L
14. Documentation	incomplete records, data	2M		1L
15. Site Clean-Up	debris hazards, chemical exposure	ЗН		2M



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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. ANY STATE OF AT ARE NOT APPLICABLE.

Queensland & Australian Capital Territory

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

 $\label{legislation QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws} \\ \text{Legislation QLD: } \\ \underline{\text{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws}} \\ \\ \underline{\text{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws}} \\ \underline{\text{https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-laws-and-compliance/work-health-and-safety-law$

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

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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/legislations/

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis > odes-oi racti

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulation 201

Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/wo_place-

Codes of Practice NT: https://worksafe.nt.gov.au/f

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/le

Codes of Practice for SA: https://www.safework.sa.gov.au/work_aces/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 at Safety Act 34

Occupational Health and afety gulations 2017

Legis on VIC: https://www.wksafe.vic.gov.au/occupational-health-and-safety-act-and-

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des on actice VI autros://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