

Working With Analog	And Digital Signal Process	sing Risk Assessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Ema:	
THIS RISK ASSESSI	MENT IS APPROVED BY THE PCI	BU ON Y 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 PCBL required to ensur	re that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CL	OR PRICING CO. TRACTOR I	DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project In			



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 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 hit er-level authorisation is required.
3H	Review and approve additional controls to the last arts. Senior supervisor sign-off needed.
2M	Ensure all nominated controls are in prace and efficiency roceed 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
ivioderate	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
- 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	Eye strain from prolonged computer use, Injury from improper equipment setup	ЗН	- Ensure all equipment is set up ergonomically to precent strain - Use chairs and desks that are adjustable to included needs - Implement mandatory breaks to reduce existrain - Educate staff on correct posture and stretchinger curses - Ensure all cables and wires are neatly secured to prevent tripling - Use anti-glare screens on monors - Provide training course conect upone of all equipment - Regularly interest equipment to ensure it is for ationing properly - Ensure all lighting in the corkspace is a mable and doesn't cause glare - Imply that a system for reporting and correcting ergonomic issues	2M
2. Signal Analysis	Electric shock from faulty equipment, Exposure to loud noise even		- Test a equipment for pectrical safety before use - calibrate equipment to manufacturer's specifications regularly Adhition to Australian Standards for electrical installations - limplement a protective equipment, such as ear plugs, when noise levels exceed safe limits - limplement a lockout/tagout system for faulty equipment - Ensure only trained personnel handle complex equipment - Limit time spent in high noise areas - Conduct regular noise assessments - Establish safe zones away from noise sources - Install warning signs for high noise areas	3H
3. Data Collection	Data loss due to system failure, Exposure to harmful signal emissions	ЗН	 Implement regular data backup procedures Use surge protectors to prevent equipment damage during power failures Install signal attenuators and filters to reduce harmful emissions Ensure all data collection equipment is properly maintained Use shielded cables to prevent signal interference Conduct regular system audits and checks Keep software updated to latest versions Provide extensive training on data handling procedures 	2M



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			- Use industry-standard encryption for data protection	
			- Immediately address any anomalies or uncertainties in data collection	
4. Signal Processing	Incorrect data processing leading to faulty analysis, Risk of repetitive strain injuries from continuous tasks	3H		2M
5. Analysis Review	Misinterpretation of Lata, Pressure leading to mental less	ЗН		2M
6. System Calibration	Calibration errors leading to inaccurate results, Physical injury from moving heavy equipment	ЗН		2M



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7. Report Generation	Inaccurate reportage due to data misinterpretation, Data breaches due to unauthorised access	зн		1L
8. Collaboration	Conflict leading to decline in productivity, Expositive and hooise levels in group work areas	3Н		2M
9. Equipment Maintenance	Injuries from equipment malfunction, Risk of chemical exposure from cleaning agents	4A		2M



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10. Decommissioning Equipment	Exposure to hazardous materials, Injury from dismantling heavy equipment	4A		ЗН
11. System Implementation	Compatibility issues with existing systems, Delayed implementation causing project backlog	зн		2M
12. Documentation	Loss of critical information due to improper record keeping, Exposure to confidential information breach	3Н		1L



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13. Quality Assurance	Failure to identify potential issues in the process, Non-compliance with relevant standards	ЗН		2M
14. Incident Reporting	Delayed reporting leading unaddressed risks, Misinformation due to lack of reporting training	ЗН		2M
15. Training	Inadequate training leading to operational errors, Physical strain from long training sessions	3H		1 L



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	Environmental harm from improper			
6. Equipment Disposal	disposal, Injury from handling heavy disposed items	3Н		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. ANY STATE OF AT 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/legislations/leg

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis codes-of ractions of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis codes-of-ractions-of-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/legislation

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.csafe.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