

Operation	on Of Centrifuges Risk Ass	essment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Ema.	
THIS RISK ASSESSI	MENT IS APPROVED BY THE PC	BU ON W 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	re that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CLI	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 In			

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	Biological contamination, Chemical spills	зн	- Ensure all personal protective equipment (PPE) including gloves and goggles is available and used. - Conduct a safety briefing for all staff involved. - Ensure centrifuge maintenance is up to d. - Inspect centrifuge and surrounding area for untarguants. - Implement a spill response clan. - Ensure access to emergency ansh stations. - Limit access to the learner connectedly. - Review Sar (Data Sheet (SDS)) cany of conicals in use. - Ensure proper chelling a samples are containers. - Veriful to per functioning of centrifuge prior to use.	2M
2. Sample Loading	Imbalance loading, Experience to aerosol		 Only to neconsonne to load samples. Uses and containers to minimise aerosol generation. wheck rotor compatibility with sample type and volume. Monitor weight distribution of samples. Ensure proper PPE is worn, including face shields. Use secondary containment for potential spills. Limit quantity of samples as per guidelines. Staff should practice safe lifting techniques. Conduct an inspection of samples for integrity. 	2M
3. Operating Centrifuge	Mechanical failure, Electric shock	4A	 Confirm proper closing of the centrifuge lid before operation. Regularly inspect and service electrical components. Always follow the manufacturers' operating manual. Ensure emergency stop button is functional. Barrier the area around centrifuge to limit exposure. Implement regular electrical safety checks. Provide training on handling failures or irregularities. Post clear warning signs around the equipment. 	2M



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			- Use surge protectors for electrical equipment.- Conduct regular checks for any unusual noises or vibrations.	
4. Unloading Samples	Burn injuries, Sample spillage	3H	- Conduct regular criecks for any unusual noises of whitations.	1L
5. Post-operation Cleaning	Chemical exposure Slip hazards	ЗН		1L
6. Maintenance	Equipment malfunction, Particulate inhalation	4A		2M



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7. Emergency Procedures	Fire, Chemical leaks	4A		2M
8. Waste Management	Biohazard disposal, Improper chemi waste	зн		1L
9. Transport of Samples	Spillage during transit, Temperature excursions	4A		2M



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10. Staff Training and Competency	Inadequate training, Non-compliance with procedures	3Н		1L
11. Administrative Control Measures	Lack of documentation, Information gaps	2M		1L
12. Monitoring and Reviewing	Overlooked hazards, Ineffective controls	4A		2M



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13. Incident Reporting	Non-reporting of incidents, Delayed response	3H		1L
14. Supplier and Contractor Management	Substandard supplies, Unqualified contractors	4A		2M
15. Use of Chemicals	Toxic exposure, Incompatible storage	4A		1L



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16. Equipment Safety	Mechanical injury, Failure to guard moving parts	ЗН		1L
17. Environmental Conditions	Poor ventilation, Excessive noise	4A		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

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/legislative

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/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 al. Safety Act

Occupational Health and Infety gulations 2017

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

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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