

Casting And	Stressing Of Tendons Ris	k Assessment	
Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Eme	
THIS RISK ASSESS	MENT IS APPROVED BY THE PC	BU OF TH 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	ire that a RISK ASSESSMENT
Full Name:			
Signature:		ritle:	Date:
CL		DETAILS	
Client:		SCOPE OF	WORKS
Project Name:			
Project Address:			
Project Manager:			
Contact Phone:			
Date Risk Assessment supplied to Project New			



RISK MATRIX								
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE MA	JOR CATASTROPH			HIERARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH		4 4 JTE ACUTE	SCORE	ACTION	Elimination Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	U U U U U U U U U U U U U U U U U U U	4 4 JTE ACUTE	4A ACUTE	DO NOT PROCEED	Substitution Replace the hazard. Isolation	
POSSIBLE	1 LOW	2 MODERATE		4 JTE ACUTE	3H HIGH	Rev before work art	Isolate People from the hazard Engineering Isolate the	
UNLIKELY	1 LOW	1 LOW		3 Z GH ACU E	MC RATE	Ensure control measures in place.	Activité istrativ e Chang	
RARE	1 LOW	1 LOW		3 GH H. 1	1L LOW	Monitor and keep records.	PP	
Assist 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 hit er-level authorisatic is required.         3H       Review and approve additional corrols in prace and efficience. Proceed with caution; monitor conditions.         2M       Ensure all nominated controls are in prace and efficience. Proceed with caution; monitor conditions.         1L       Proceed, following standard operating procedurer 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 ator intervention; c		Always document why a lower-order control is accepted if	
Catastrophic Major	Fatality or perma Serious injury/illr days)			wn prosecution	tice; major media		elimination or substitution is not reasonably practicable. 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	work (2023) and ISO 45001:2018 clauses 6–8.			
Minor	First-aid only, no	lost time	negligible dela	y Isolated non-con	formance			
	significant     No injury     no schedule impact     Deviation caught and corrected on site							



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	Improper handling of equipment, Slips and trips	ЗН	<ul> <li>Use designated walkways to avoid tripping</li> <li>Inspect equipment before use</li> <li>Provide training on equipment handling</li> <li>Ensure appropriate housekeeping is maintained</li> <li>Use slip-resistant footwear</li> <li>Communicate about potentian exards during briefleres</li> <li>Implement a too for the strict access to we harea</li> <li>Coprint pre-neck safereneetings</li> <li>Use propriate met</li> </ul>	2М
2. Inspection of Materials	Damaged materials, Inadequate inspection	21	<ul> <li>Only til mediorsonning conduct inspections</li> <li>One che klist formspection criteria</li> <li>Reputed replace damaged materials</li> <li>Insure regular inspection schedules</li> <li>Document inspection findings</li> <li>Maintain a log of all materials inspected</li> <li>Implement a system of peer reviews</li> <li>Provide adequate lighting for inspections</li> <li>Conduct refresher training on inspection protocols</li> <li>Segregate damaged materials from use</li> </ul>	2M
3. Equipment Setup	Equipment malfunction, Incorrect setup	4A	<ul> <li>Follow manufacturer's instructions for setup</li> <li>Conduct function tests before full operation</li> <li>Use built-in safety features</li> <li>Engage experts for complex setups</li> <li>Conduct regular maintenance</li> <li>Use only certified equipment</li> <li>Implement a checklist for setup</li> <li>Display setup instructions prominently</li> </ul>	2M



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			- Provide supervision during setup	
			- Report abnormalities immediately	
4. Tendon Positioning	Incorrect positioning, Strain from manual handling	ЗН		2M
5. Tensioning Preparation	Excessive tension utadequate tool calibration	44		2M
6. Stressing Tendons	Over-stressing, Equipment failure	4A		2M



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7. Post-Stressing Inspection	Undetected damage, Equipment hazards	зн		2М
8. Dismantling Equipment	Falling equipment, Fury for a point tools	вн		2М
9. Clean-up	Residual material hazards, Environmental hazards	ЗН		2М



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10. Final Inspection and Sign-Off	Missed hazards, Incomplete documentation	ЗН		1L
11. Worker Training	Inadequate knowledge, Lack of refresher courses	ЗН		2М
12. Communication Procedures	Miscommunication, Ambiguity in instruction	ЗН		2М



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13. Emergency Preparedness	Delayed response, Inadequate training	4A		2M
14. Routine Maintenance	Unattended equipment failures, Inadequate maintenance	ЗН		2М
15. Workplace Monitoring	Undetected hazards, Lack of timely reporting	ЗН		2M



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16. Equipment Storage	Improper storage, Equipment damage	ЗН		2M
17. Hazard Communication	Unknown hazards, Inadequate communication	ЗН		2М
18. Health Monitoring	Health deterioration, Missed symptoms	ЗН		2M



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19. Contractor Management	Unfamiliarity with site protocols, Non- compliance with safety procedures	ЗН		2М
20. Review and Continuous Improvement	Complacency, Ineffective procedures	ЗН		1L



#### **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.

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES ANY STATE 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	Victoria Orchipational Health and Safety Action 04 Occupational Health and Safety Action 04 Decision VIC: https://www.safe.vic.gov.au/occupational-health-and-safety-act-and- rulations succession victore VICs.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: <a href="https://www.safework.nsw.gov.au/legal-obligations/legislati-codes">https://www.safework.nsw.gov.au/legal-obligations/legislati-codes</a> of Practice NSW: <a href="https://www.safework.nsw.gov.au/resource-library/lis">https://www.safework.nsw.gov.au/legal-obligations/legislati-codes</a> of Practice NSW: <a href="https://www.safework.nsw.gov.au/resource-library/lis">https://www.safework.nsw.gov.au/legal-obligations/legislati-codes</a> of Practice NSW: <a href="https://www.safework.nsw.gov.au/resource-library/lis">https://www.safework.nsw.gov.au/resource-library/lis</a> <a acts-and-regulations"="" href="https://www.safework.nsw.gov.gov.gov.gov.gov.gov.gov.gov.gov.gov&lt;/td&gt;&lt;td&gt;Western Australia&lt;br&gt;Work Health and Safety Act 2020&lt;br&gt;Work Health and Safety Regulations 2022&lt;br&gt;Legislation Western Australia: &lt;u&gt;https://www.commerce.wa.gov.au/worksafe/legislation&lt;/u&gt;&lt;br&gt;Codes of Practice WA: &lt;u&gt;https://www.commerce.wa.gov.au/worksafe/codes-practice&lt;/u&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Northern Territory&lt;br&gt;Work Health and Safety (National Uniform Legislation) Act 2011&lt;br&gt;Work Health and Safety (National Uniform Legislation) Regulation 2015&lt;br&gt;Legislation NT: &lt;u&gt;https://worksafe.nt.gov.au/laws-and-compliance/wd-place-servelaws&lt;/u&gt;&lt;br&gt;Codes of Practice NT: &lt;u&gt;https://worksafe.nt.gov.au/formed-resourcestorestorestorestorestorestorestorestor&lt;/u&gt;&lt;/td&gt;&lt;td&gt;Safe Work Australia Links&lt;br&gt;Law and Regulation (All States): &lt;u&gt;https://www.safeworkaustralia.gov.au/law-and-regulation&lt;/u&gt;&lt;br&gt;Model Codes of Practice: &lt;u&gt;https://www.safeworkaustralia.gov.au/resources-publications/model-&lt;br&gt;codes-of-practice&lt;/u&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;South Australia&lt;br&gt;Work Health and Safety Act 2012 (SA)&lt;br&gt;Work Health and Safety Regulations 2012 (SA)&lt;br&gt;Legislation for SA: https://www.safework.sa.gov.au/resources/legislation&lt;br&gt;Codes of Practice for SA: https://www.safework.sa.gov.au/work_dces/codes-of-practice#COPs&lt;/td&gt;&lt;td&gt;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&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;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: &lt;a href=" https:="" laws-and-compliance="" topics="" worksafe.tas.gov.au="">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 and 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 safety consultation, cooperation 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>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>							