

## Perform Under High-Heat Conditions 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			<b>Elimination</b> Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	<b>Substitution</b> 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.	<b>Engineering</b> Isolate the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	Monitor and keep records.	<b>Administrative</b> Change	
								<b>PPE</b>	
<b>Risk Rating &amp; Required Action:</b>								<b>Notes on Hierarchy of Controls:</b>	
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.								Remember to apply controls in the preferred order shown by the coloured pyramid:	
3H Review and approve additional controls before task starts. Senior supervisor sign-off needed.								1. <b>Eliminate</b>	
2M Ensure all nominated controls are in place and effective. Proceed with caution; monitor conditions.								2. Substitute	
1L Proceed, following standard operating procedures. Monitor and keep records.								3. Isolate	
								4. Engineering	
								5. Administrative	
								6. PPE	
<b>Consequence Scale:</b>								Always document <b>why</b> a lower-order control is accepted if elimination or substitution is not reasonably practicable.	
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				
								<i>aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.</i>	

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. Conduct Site Assessment	High temperatures, Sun exposure	3H	<ul style="list-style-type: none"> <li>- Schedule assessments during cooler parts of the day</li> <li>- Provide shaded areas for assessment pauses</li> <li>- Use infrared thermometers to measure surface temperatures</li> <li>- Limit duration of direct sun exposure periods</li> <li>- Ensure team wears wide-brimmed hats</li> <li>- Maintain hydration stations on site</li> <li>- Have sunscreen accessible for all workers</li> <li>- Wear UV-protective clothing</li> <li>- Plan work sequences to reduce exposure</li> <li>- Train team on recognising heat-related symptoms</li> </ul>	2M
2. Equipment Check	Hot surfaces, Equipment malfunction	3H	<ul style="list-style-type: none"> <li>- Conduct pre-use equipment inspections</li> <li>- Ensure all tools are insulated</li> <li>- Use heat-resistant gloves</li> <li>- Check for overheating signs in machinery</li> <li>- Provide regular maintenance log</li> <li>- Ensure cooling systems for equipment are functional</li> <li>- Implement use of thermal barriers</li> <li>- Prohibit use of defective equipment</li> <li>- Train staff on proper handling of equipment</li> <li>- Include emergency shut-off procedures</li> </ul>	2M
3. Worker Briefing	Inadequate acclimatisation, Lack of awareness	3H	<ul style="list-style-type: none"> <li>- Implement gradual heat exposure plans</li> <li>- Conduct thorough pre-work briefings</li> <li>- Provide informational sessions on heat-related risks</li> <li>- Instruct on acclimatisation signs</li> <li>- Outline daily work-rest cycles</li> <li>- Ensure team is aware of emergency protocols</li> <li>- Confirm understanding of hydration needs</li> <li>- Establish a buddy system</li> </ul>	1L

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			<ul style="list-style-type: none"> <li>- Assess new workers for heat tolerance</li> <li>- Reinforce communication channels</li> </ul>	
4. Personal Protective Equipment (PPE) Allocation	Insufficient protection, Heat-related stress	4A	<ul style="list-style-type: none"> <li>- Provide appropriate PPE for the task</li> <li>- Ensure PPE is in good condition</li> <li>- Provide training on PPE use</li> <li>- Ensure PPE is comfortable and does not restrict movement</li> <li>- Provide shade for PPE storage</li> <li>- Provide cooling towels for PPE</li> <li>- Provide cooling vests for PPE</li> <li>- Provide cooling blankets for PPE</li> <li>- Provide cooling mats for PPE</li> <li>- Provide cooling pads for PPE</li> <li>- Provide cooling fans for PPE</li> <li>- Provide cooling sprays for PPE</li> <li>- Provide cooling gels for PPE</li> <li>- Provide cooling packs for PPE</li> <li>- Provide cooling pillows for PPE</li> <li>- Provide cooling blankets for PPE</li> <li>- Provide cooling mats for PPE</li> <li>- Provide cooling pads for PPE</li> <li>- Provide cooling fans for PPE</li> <li>- Provide cooling sprays for PPE</li> <li>- Provide cooling gels for PPE</li> <li>- Provide cooling packs for PPE</li> <li>- Provide cooling pillows for PPE</li> </ul>	2M
5. Hydration Management	Dehydration, Heat exhaustion	4A	<ul style="list-style-type: none"> <li>- Provide water for hydration</li> <li>- Provide electrolyte drinks for hydration</li> <li>- Provide shade for hydration</li> <li>- Provide cooling towels for hydration</li> <li>- Provide cooling vests for hydration</li> <li>- Provide cooling blankets for hydration</li> <li>- Provide cooling mats for hydration</li> <li>- Provide cooling pads for hydration</li> <li>- Provide cooling fans for hydration</li> <li>- Provide cooling sprays for hydration</li> <li>- Provide cooling gels for hydration</li> <li>- Provide cooling packs for hydration</li> <li>- Provide cooling pillows for hydration</li> <li>- Provide cooling blankets for hydration</li> <li>- Provide cooling mats for hydration</li> <li>- Provide cooling pads for hydration</li> <li>- Provide cooling fans for hydration</li> <li>- Provide cooling sprays for hydration</li> <li>- Provide cooling gels for hydration</li> <li>- Provide cooling packs for hydration</li> <li>- Provide cooling pillows for hydration</li> </ul>	2M
6. Shade and Rest Areas Provision	Prolonged sun exposure, Insufficient rest	3H	<ul style="list-style-type: none"> <li>- Provide shade for rest</li> <li>- Provide cooling towels for rest</li> <li>- Provide cooling vests for rest</li> <li>- Provide cooling blankets for rest</li> <li>- Provide cooling mats for rest</li> <li>- Provide cooling pads for rest</li> <li>- Provide cooling fans for rest</li> <li>- Provide cooling sprays for rest</li> <li>- Provide cooling gels for rest</li> <li>- Provide cooling packs for rest</li> <li>- Provide cooling pillows for rest</li> <li>- Provide cooling blankets for rest</li> <li>- Provide cooling mats for rest</li> <li>- Provide cooling pads for rest</li> <li>- Provide cooling fans for rest</li> <li>- Provide cooling sprays for rest</li> <li>- Provide cooling gels for rest</li> <li>- Provide cooling packs for rest</li> <li>- Provide cooling pillows for rest</li> </ul>	1L

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7. Emergency Response Planning	Inadequate emergency protocols, Delayed response times	3H		1L
8. Monitoring Environmental Conditions	Sudden heat spikes, Weather changes	3H		2M
9. Worker Health Monitoring	Heat stress, Undetected health issues	4A		2M

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10. Work Schedule Management	Overexertion, Inadequate recovery time	3H		2M
11. Heat-Adaptation Program	Poor adaptation, Increased susceptibility	3H		1L
12. Nutritional Support	Poor dietary practices, Energy depletion	3H		2M

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13. Cooling Station Implementation	Infrastructure limitations, Inadequate cooling effectiveness	3H		2M
14. Training and Awareness Programs	Knowledge gaps, Competence	3H		1L
15. Compliance and Reporting	Non-compliance, Delayed reporting	3H		2M

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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.