

Engine Tune-Ups 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	4A ACUTE	DO NOT PROCEED	Elimination Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE			Substitution Replace the hazard.	
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE			Isolation Isolate People from the hazard	
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE			Engineering Isolate the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH			Administrative Change	
						1L LOW	Monitor and keep records.	PPE	
Risk Rating & Required Action:								Notes on Hierarchy of Controls:	
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. Eliminate	
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	
Consequence Scale:								4. Engineering	
Consequence		People (injury/illness)		Project / Assets		Compliance / Reputation		5. Administrative	
Catastrophic		Fatality or permanent total disability		project shutdown		Significant regulator intervention; criminal prosecution		6. PPE	
Major		Serious injury/illness (hospital > 5 days)		critical delay		Improvement notice; major media coverage		Always document why a lower-order control is accepted if elimination or substitution is not reasonably practicable.	
Moderate		Medical-treatment injury; lost-time > 1 day		moderate delay		Minor breach; adverse client comment		<i>aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.</i>	
Minor		First-aid only, no lost time		negligible delay		Isolated non-conformance			
Insignificant		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	Chemical exposure, Noise	3H	<ul style="list-style-type: none"> - Provide necessary PPE such as gloves and earplugs - Ensure proper ventilation in the work area - Conduct training on safe chemical handling - Use labels and safety data sheets for all chemicals - Ensure proper storage of chemicals"]},{ <p>step :</p> <p>1. Inspect Tools and Equipment</p> <p>hazards :</p> <p>Fire</p> <p>Electrical Shock</p> <p>initialRisk :</p> <p>3H</p> <p>residualRisk :</p> <p>2M</p>	2M
3. Lifting and Moving Equipment	Manual handling injuries, Crushing hazard	3H	<ul style="list-style-type: none"> - Use mechanical aids where possible - Provide training on manual handling techniques - Ensure team-lifting protocols for heavy items - Keep pathways clear to avoid tripping hazards - Conduct task-specific risk assessments prior to lifting tasks"]},{ <p>step :</p> <p>Step :</p> <p>1. Engine Disassembly</p> <p>hazards :</p> <p>Contact with Hot Surfaces ,</p> <p>Sharp Edges</p> <p>initialRisk :</p> <p>4 A ,</p>	1L

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5. Diagnosis	Data entry errors, Exposure to vehicle fluids	3H	<ul style="list-style-type: none"> - Use computer diagnostic tools correctly - Dispose of vehicle fluids in accordance with regulations - Use gloves when handling fluids - Ensure training in data entry procedures is provided - Use spill kits for fluid leaks" 	2M
7. Adjusting Engine Components	Misalignment, Repetitive motion injuries	3H	<ul style="list-style-type: none"> - Provide appropriate respiratory protection - Perform cleaning in a well-ventilated area - Use non-toxic, water-based cleaners where possible 	2M

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9 . Calibration	Incorrect calibration, Equipment failure	3H	[REDACTED]	1L
11. Quality Control Inspection	Technical errors, Improper testing	3H	[REDACTED]	1L

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13 Final Documentation	Data entry errors, Loss of paperwork	2M	<ul style="list-style-type: none"> 1. All documents to be double checked for accuracy 2. All documents to be stored in a secure location 3. All documents to be backed up regularly 4. All documents to be destroyed when no longer needed 5. All documents to be kept for a minimum of 10 years 6. All documents to be kept in a secure location 7. All documents to be kept in a secure location 8. All documents to be kept in a secure location 9. All documents to be kept in a secure location 10. All documents to be kept in a secure location 11. All documents to be kept in a secure location 12. All documents to be kept in a secure location 13. All documents to be kept in a secure location 14. All documents to be kept in a secure location 15. All documents to be kept in a secure location 16. All documents to be kept in a secure location 17. All documents to be kept in a secure location 18. All documents to be kept in a secure location 19. All documents to be kept in a secure location 20. All documents to be kept in a secure location 	1L
15 . Worksite Inspection and Closure	Hazardous materials left behind, Unauthorised access	3H	<ul style="list-style-type: none"> 1. All hazardous materials to be removed from the worksite 2. All hazardous materials to be stored in a secure location 3. All hazardous materials to be destroyed when no longer needed 4. All hazardous materials to be kept for a minimum of 10 years 5. All hazardous materials to be kept in a secure location 6. All hazardous materials to be kept in a secure location 7. All hazardous materials to be kept in a secure location 8. All hazardous materials to be kept in a secure location 9. All hazardous materials to be kept in a secure location 10. All hazardous materials to be kept in a secure location 11. All hazardous materials to be kept in a secure location 12. All hazardous materials to be kept in a secure location 13. All hazardous materials to be kept in a secure location 14. All hazardous materials to be kept in a secure location 15. All hazardous materials to be kept in a secure location 16. All hazardous materials to be kept in a secure location 17. All hazardous materials to be kept in a secure location 18. All hazardous materials to be kept in a secure location 19. All hazardous materials to be kept in a secure location 20. All hazardous materials to be kept in a secure location 	1L

3H

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21 Closing Documentation	Data integrity issues, Record mismanagement	2M	[Redacted]	1L
23 [redacted], facehuggerendeelsa	Inhalation of fumes, Facehugger exposure	3H	[Redacted] [Redacted]	1L
24 Tail Service for Queen	Tail stabs, Psychological scarring	4A	[Redacted]	2M

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
			<ul style="list-style-type: none"> 1. Establish a clear communication protocol between the mining ship and any nearby vessels or structures. 2. Implement a strict no-fly zone around the mining operation. 3. Use advanced radar and sensor technology to detect any potential threats. 4. Establish a clear chain of command and ensure all personnel are trained in emergency procedures. 5. Conduct regular safety drills and simulations. 6. Use non-lethal deterrents where possible. 7. Establish a clear protocol for reporting any suspicious activity. 8. Use advanced AI algorithms to detect and track potential threats. 9. Implement a strict protocol for handling any potential threats. 10. Use advanced sensor technology to detect any potential threats. 	
25 Asteroid Mining Operations	Unknown space alien encounters, Hull breaches	4A	<ul style="list-style-type: none"> 1. Establish a clear communication protocol between the mining ship and any nearby vessels or structures. 2. Implement a strict no-fly zone around the mining operation. 3. Use advanced radar and sensor technology to detect any potential threats. 4. Establish a clear chain of command and ensure all personnel are trained in emergency procedures. 5. Conduct regular safety drills and simulations. 6. Use non-lethal deterrents where possible. 7. Establish a clear protocol for reporting any suspicious activity. 8. Use advanced AI algorithms to detect and track potential threats. 9. Implement a strict protocol for handling any potential threats. 10. Use advanced sensor technology to detect any potential threats. 	2M
26 Implementing Artificial Intelligence Protocols	AI algorithm malfunctions, In Java-classed Unconsented HR Hires	4A	<ul style="list-style-type: none"> 1. Establish a clear communication protocol between the mining ship and any nearby vessels or structures. 2. Implement a strict no-fly zone around the mining operation. 3. Use advanced radar and sensor technology to detect any potential threats. 4. Establish a clear chain of command and ensure all personnel are trained in emergency procedures. 5. Conduct regular safety drills and simulations. 6. Use non-lethal deterrents where possible. 7. Establish a clear protocol for reporting any suspicious activity. 8. Use advanced AI algorithms to detect and track potential threats. 9. Implement a strict protocol for handling any potential threats. 10. Use advanced sensor technology to detect any potential threats. 	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.