

# **Plant and Equipment Risk Assessment**

	Hired From All Master Hire Stores		FUE	EL CELL		Approved By:	Steven Jose	
Equipment Location:		Equipment:				Signature:	ff-	
		Manufacturer Details	Var	rious				
Hazard		Action Require Yes/No		Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Trea Report Form)	tment (Complete Hazard	Risk Level after Risk Treatment (Refer to risk matrix)
Entanglemen								
brushes, rags o	nair, clothing, gloves, necktie, jewellery, cleaning or other materials become entangled with moving nt, or materials in motion?	☐ Yes ☑ No			☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE			
Crushing					<u>. —</u>			
Can anyone be crushed due to:  Material falling off the plant?  Uncontrolled or unexpected movement of the plant or its load?  Lack of capacity for the plant to be slowed, stopped or immobilized?  The plant tipping or rolling over?  Parts of the plant collapsing?  Coming in contact with moving parts of the plant during testing, inspection, use, maintenance, cleaning or repair?  Being thrown off or under the plant?  Being trapped between the plant and materials or fixed structures?  Other factors?				ACUTE	⊠ Elimination     □ Substitution     ☑ Isolation     □ Engineering     ☑ Administration     ☑ PPE	Follow manufacture Obey all warning of Ensure travel of meteorical forward or reversing personnel except of Ensure equipment securely while trans Ensure all signage decals are clear ar Ensure appropriate ensure safety and injury	lecals oving vehicle ng) is free of all driver is tied down sporting , labels and warning and visible e PPE is worn to	HIGH
Cutting, Stab	bing and Puncturing			1				T
<ul> <li>Coming</li> <li>Coming</li> <li>testing,</li> <li>repair o</li> <li>Plant, p</li> </ul>	e cut, stabbed or punctured due to? g in contact with sharp or flying objects? g in contact with moving parts of the plant during inspection, operation, maintenance, cleaning or of the plant? parts of the plant or work pieces disintegrating? ieces being ejected?	☐ Yes ☑ No			☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE			

Authorised by: General Manager - Safety & Personnel Date: 23/10/2023 Review Date: October 2024 Issue No: 1 Page 1 of 8



# **Plant and Equipment Risk Assessment**

	1	1		
☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
⊠ Yes □ No	MEDIUM	⊠ Elimination     □ Substitution     ☑ Isolation     ☑ Engineering     ☑ Administration     ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure all signage, labels and warning decals are clear and visible at all times Ensure travel of moving vehicle (forward or reversing) is free of all personnel except driver Ensure all loads are placed and secured Ensure exclusion zone in and around vehicle while loaded or being filled Ensure appropriate PPE is worn to ensure safety and minimise personal injury	LOW
⊠ Yes □ No	LOW	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure all signage, labels and warning decals are clear and visible Ensure appropriate PPE is worn to ensure safety and minimise personal injury	LOW
	No  Yes  No  Yes  No  Yes  No  Yes  Ves  No	No  Yes No  No  MEDIUM  Yes Ves LOW	Substitution   Isolation   Isolation	Substitution   Solation   Engineering   Administration   PPE

Authorised by: General Manager - Safety & Personnel Date: 23/10/2023 Review Date: October 2024 Issue No: 1 Page 2 of 8



# **Plant and Equipment Risk Assessment**

Electrical					
Can anyone be injured by electrical shock or burnt due to:  The plant contacting live electrical conductors?  Plant working close to electrical conductors?  Overload of electrical circuits?  Damaged or poorly maintenance electrical leads or cables?  Damaged electrical switches?  Water near electrical equipment?  Lack of isolation procedures?  Other factors	⊠ Yes □ No	MEDIUM	<ul> <li>☑ Elimination</li> <li>☐ Substitution</li> <li>☐ Isolation</li> <li>☑ Engineering</li> <li>☑ Administration</li> <li>☑ PPE</li> </ul>	Follow manufacturers' instructions Obey all warning decals Do not operate in areas with overhead/underground wiring or other obstructions Ensure placement of Fuel Cell is away from electrical conductors Ensure any ignition source is removed prior to operation Do not use this machine under bad weather conditions Ensure all emergency stops, switches and buttons are in good working condition Ensure appropriate PPE is worn to ensure safety and minimise personal injury	LOW
Explosion			1		
Can anyone be injured by fuels such as gases, vapours, liquids, dusts or other substances being ignited triggered by the operation of the plant or by materials handled by the plant?	⊠ Yes □ No	HIGH	⊠ Elimination     □ Substitution     ☑ Isolation     □ Engineering     ☑ Administration     ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure all signage, labels and warning decals are clear and visible Ensure placement of Fuel Cell is away from electrical conductors Ensure any ignition source is removed prior to operation Ensure the labels on the tank clearly specify the contents and any necessary controls Ensure fire extinguisher is always present, have current certification and be fully functional Ensure appropriate PPE is worn to ensure safety and minimise personal injury	LOW

Authorised by: General Manager - Safety & Personnel Date: 23/10/2023 Review Date: October 2024 Issue No: 1 Page 3 of 8



# **Plant and Equipment Risk Assessment**

Slipping, tripping and Falling					
Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to:  Uneven or slippery work surfaces?  Poor housekeeping, such as shavings in the vicinity of the plant, spillage not cleaned up?  Obstacles being placed in the vicinity of the plant?  Other factors?	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Wear appropriate footwear Use steps provided when getting in/on Fuel Cell Never climb on or enter tank area Take precaution when refilling tank to not spill the contents Ensure appropriate PPE is worn whilst operating this machine to ensure safety and minimise personal injury	LOW
High Temperature					
Can anyone:     Come into contact with objects at high temperature?     Come into contact with hot fluids?     Be injured by fire?	⊠ Yes □ No	LOW	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure fire extinguisher is always present, have current certification and be fully functional Ensure appropriate PPE is worn to ensure safety and minimise personal injury	LOW
Temperature and Thermal Comfort					
Can anyone suffer ill-health due to:  Exposure to high or low temperatures?  Failure of air conditioning equipment?	☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
Suffocation					
Can anyone be suffocated due to:  Lack of oxygen, or atmospheric contamination?	☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		

Authorised by: General Manager - Safety & Personnel Date: 23/10/2023 Review Date: October 2024 Issue No: 1 Page 4 of 8



# **Plant and Equipment Risk Assessment**

Ergonomics	]				
Can anyone be injured due to:     Poorly designed seating?     Repetitive body movements?     Constrained body posture or the need for excessive effort?     Design deficiency causing physical or personal stress?     Inadequate or poorly placed lighting?     Lack of consideration given to human error or human behaviour?     Mismatch of the plant with human traits and natural limitations?     Other factors?	⊠ Yes □ No	LOW	⊠ Elimination     □ Substitution     □ Isolation     ⋈ Engineering     ⋈ Administration     □ PPE	Follow manufacturers' instructions Obey all warning decals Take regular breaks/rests Exercise/stretch regularly Do not operate beyond your personal capabilities Use suitably designed and secured loading/unloading procedures including crane, hoist, ramps etc. when moving cell Observe and use proper manual handling techniques	LOW
Transportation					
Can anyone be injured by this equipment falling or driven off vehicle or trailer while loading, unloading or transportation?	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure engine and fuel is switched off Ensure equipment, attachments and sundry items are securely tied down Apply/use chocks if necessary Ensure liquids are prevented from spillage Maintain vehicle and/or equipment in good working order - report any malfunction or damage to Master Hire immediately and stop using equipment where it is reasonable to foresee further risk to persons or damage to equipment Ensure appropriate PPE is worn whilst operating this machine to ensure safety and minimise personal injury	LOW

Authorised by: General Manager - Safety & Personnel Date: 23/10/2023 Review Date: October 2024 Issue No: 1 Page 5 of 8



# **Plant and Equipment Risk Assessment**

Operational					
Can anyone be injured by this equipment	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure equipment is on stable ground and clear of obstructions Ensure adequate ventilation Ensure safety gears, levers, switches etc. are engaged/disengaged appropriately before starting/operating Ensure machine is switched off before making any adjustments Regular inspection to check for any structural damage must be done prior to commencing operation Do not remove the hazard warning label Ensure fire extinguisher is always present, have current certification and be fully functional Ensure appropriate PPE is worn whilst operating this machine to ensure safety and minimise personal injury	LOW
Other Hazards  Can anyone be injured or suffer ill-health from exposure to:  Chemicals?  Toxic gases or vapours?  Fumes?  Dust?  Noise?  Vibration?  Radiation?  Other Factors?	⊠ Yes □ No	LOW	⊠ Elimination     □ Substitution     □ Isolation     ⊠ Engineering     ☑ Administration     ☑ PPE	Follow manufacturers' instructions Obey all warning decals Operate in well-ventilated areas only Check for overhead/underground utilities (gas, water, electrical) before operation Ensure equipment is appropriately labelled and meet the relevant State Legislative requirements Maintain vehicle and/or equipment in good working order - report any malfunction or damage to Master Hire immediately and stop using equipment where it is reasonable to foresee further risk to persons or damage to equipment Ensure appropriate PPE is worn whilst operating this machine to ensure safety and minimise personal injury	LOW

Authorised by: General Manager - Safety & Personnel Date: 23/10/2023 Review Date: October 2024 Issue No: 1 Page 6 of 8



# **Plant and Equipment Risk Assessment**

Further Comments	A Specific Risk Assessment on site must been undertaken prior to plant operation.				
	This equipment must only be driven/operated by competent persons and holders of the appropriate license				
Checklist:	Manufacturers' manuals referenced				
	⊠ Copy kept in Master Hires' Risk Management File				



# **Plant and Equipment Risk Assessment**

# **Hazard / Risk Matrix**

Reference: Workplace Health and Safety Queensland - Risk Assessment - Supplement 2 Risk Management Code of Practice 2007

#### **Step 1 Determine Likelihood –** What is the possibility of the event happening?

	Criteria	Description
Almost certain	Expected in most circumstances.	Event is a common problem
Likely	Will probably occur in most circumstances.	Event is known to have occurred at this site or it has happened
Possible	Might occur at some time	Event could occur at the site or I've heard of it happening
Unlikely	Could occur at some time	Event is not likely to occur at the site or I have not heard of it happening
Rare	May occur only in exceptional circumstances	Event is practically impossible.

#### Step 2 Determine Consequence - What will be the result if it happens?

Classification	Example detail description
Insignificant	No injuries
Minor	First aid treatment only; spillage contained at site.
Moderate	Medical treatment; spillage contained but with outside help.
Major	Extensive injuries; loss of production
Catastrophic	Death; toxic release of chemicals

#### Step 3 Determine the risk score

	CONSEQUENCE							
LIKELIHOOD	Insignificant	Minor	Moderate	Major	Catastrophic			
Almost certain	3 High	3 High	4 Acute	4 Acute	4 Acute			
Likely	2 Medium	3 High	3 High	4 Acute	4 Acute			
Possible	1 Low	2 Medium	3 High	4 Acute	4 Acute			
Unlikely	1 Low	1 Low	2 Medium	3 High	4 Acute			
Rare	1 Low	1 Low	2 Medium	3 High	3 High			

Step 4 Record risk score against the job sequence steps
(Note – Risk scores have no absolute value and should only be used for comparison and to engender discussion.)

Score	Action
4 A: Acute	ACT NOW – Urgent – do something about the risks immediately. Requires immediate attention.
3 H: High	Highest management decision is required urgently.
2 M: Medium	Follow management instructions.
1 L: Low	OK for now. Record and review if any equipment/ people/ materials/ work processes or procedures change.

Authorised by: General Manager - Safety & Personnel	Date: 23/10/2023	Review Date: October 2024	Issue No: 1	Page 8 of 8
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