

Plant and Equipment Risk Assessment

	Hired From All Master Hire Stores			Pump All siz		ole – Electric –	Approved By:	Steven Jose	
Equipment Location:		Equipment:					Signature:	ef-	
		Manu Detail	facturer	Vario	us				
Hazard			action Required Yes/No	d (F	tisk Level Refer to risk natrix)	Hierarchy of Control	Hazard and Risk Treat Report Form)	tment (Complete Hazard	Risk Level after Risk Treatment (Refer to risk matrix)
Entanglemen			3				-		T
brushes, rags o	air, clothing, gloves, necktie, jewellery, cleaning r other materials become entangled with moving nt, or materials in motion?	,	☑ Yes ☑ No	M	IEDIUM	⊠ Elimination □ Substitution ☑ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacture Obey all warning d Only allow trained persons to operate Ensure all guards a place Do not lean or read pump area with mo Do not do any serv maintenance with r	ecals & competent equipment and fixtures are in the into motor or otor running vicing or	LOW
Crushing									1
Can anyone be Materia Uncontri load? Lack of immobil The pla Parts of Coming testing, Being the	Int tipping or rolling over? If the plant collapsing? If in contact with moving parts of the plant during inspection, use, maintenance, cleaning or repair hrown off or under the plant? I rapped between the plant and materials or fixed res?	ts	_ 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 7



Plant and Equipment Risk Assessment

Cutting, Stabbing and Puncturing			
Can anyone be cut, stabbed or punctured due to? Coming in contact with sharp or flying objects? Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair of the plant? Plant, parts of the plant or work pieces disintegrating? Work pieces being ejected? The mobility of the plant? Uncontrolled or unexpected movement of the plant? Other factors?	☐ Yes ☑ No	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE	
Shearing	<u>.</u>		
Can anyone's body parts be: Sheared between two or more parts of the plant, or between a part of the plant and a work piece or structure?	☐ Yes ☑ No	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE	
Friction			
Can anyone be burnt, gain abrasions etc. due to: Contact with moving parts or surfaces of the plant, or material handled by the plant?	☐ Yes ☑ No	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE	
Striking	·		
 Can anyone be struck by moving objects due to: Uncontrolled or unexpected movement of the plant or material handled by the plant? Plant, parts of the plant or work pieces disintegrating? Work pieces being ejected? Mobility of the plant? Other factors? 	☐ Yes ☑ No	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE	
High Pressure Fluid			
Can anyone come into contact with? Fluids under high pressure in normal use, in the instance of plant failure?	☐ 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 2 of 7



Plant and Equipment Risk Assessment

Electrical	7				
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	HIGH	⊠ Elimination □ Substitution □ Isolation □ Engineering ☑ Administration □ PPE	Follow manufacturers' instructions Obey all warning decals Ensure electrical cables are securely connected/plugged into sockets Ensure electrical cables are properly maintained and TNT is within date Ensure electrical cables are protected from damage such as crushing by materials or vehicle traffic (ground or overhead) Ensure extension leads/cables and tools are connected through an Residual Current Device (RCD) Inspect electrics and ensure there is no damage from previous use or stowage Ensure rope is secured to pump housing Never lower or retrieve pump by pulling on electrical cabling Do not enter water while pump is connected to power source	MEDIUM
Explosion		•	1	,	•
Can anyone be injured by fuels such as gases, vapors, liquids, dusts or other substances being ignited triggered by the operation of the plant or by materials handled by the plant?	⊠ Yes □ No	LOW	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☐ PPE	Follow manufacturers' instructions Obey all warning decals Only allow trained & competent persons to operate equipment Keep flammables away from all electrical components (pump, leads)	LOW
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 Ensure cables and leads are coiled properly and out of the way of pedestrians Ensure an exclusion zone is set up around work area Keep work area clean and tidy	LOW

Authorised by: General Manager - Safety & Personnel Date: 23/10/2023 Review Date: October 2024 Issue No: 1 Page 3 of 7



Plant and Equipment Risk Assessment

High Temperature]				
Can anyone: Come into contact with objects at high temperature? Come into contact with hot fluids? Be injured by fire?	☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
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		1			
Can anyone be suffocated due to: Lack of oxygen, or atmospheric contamination?	☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
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 behavior? Mismatch of the plant with human traits and natural limitations? Other factors?	⊠ Yes □ No	MEDIUM	⊠ Elimination □ Substitution □ Isolation ☑ Engineering ☑ Administration □ PPE	Follow manufacturers' instructions Obey all warning decals Do not operate beyond operator's personal capabilities Observe and use proper handling techniques	LOW
Transportation			T ==		T
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 equipment, attachments and sundry items are securely tied down Apply/use chocks if necessary (for vehicle) Maintain vehicle and/or equipment in	LOW

Authorised by: General Manager - Safety & Personnel Date: 23/10/2023 Review Date: October 2024 Issue No: 1 Page 4 of 7



Plant and Equipment Risk Assessment

				good working order - report any malfunction or damage to owner immediately and stop using plant/vehicle where it is reasonable to foresee further risk to persons or damage to plant/vehicle	
Operational		1	1		
Can anyone be injured by this equipment	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE	Follow manufacturers' instructions Obey all warning decals Ensure switches etc. are engaged/disengaged appropriately before starting/operating Ensure all guards and fixtures are in place Ensure appropriate PPEs are used (e.g. protection for eyes, hearing, hands and footwear) Ensure electrical cables are grounded appropriately and away from moving parts of plant Ensure electrical cables are protected from physical damage Ensure electrical cables are free of damage (internal and external) tested and within TNT date Only licensed and competent electricians conduct any electrical work Do not overload or tamper with any electrical component or circuitry Do not operate near flammable gases or liquids Ensure plant/vehicle is switched off before making any adjustments Ensure Residual Current Device (RCD) is functioning correctly (use test button)	LOW

Authorised by: General Manager - Safety & Personnel Date: 23/10/2023 Review Date: October 2024 Issue No: 1 Page 5 of 7



Plant and Equipment Risk Assessment

Other Hazards					
Can anyone be injured or suffer ill-health from exposure to: Chemicals? Toxic gases or vapors? Fumes? Dust? Noise? Vibration? Radiation? Other Factors?	⊠ Yes □ No	MEDIUM	⊠ Elimination □ Substitution □ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure appropriate PPE is worn Ensure equipment is appropriately labeled and meet the relevant State Legislative requirements Maintain plant in good working order - report any malfunction or damage to Master Hire immediately and stop using plant where it is reasonable to foresee further risk to persons or damage to equipment	LOW
Further Comments: A Specific Risk Assessment on site mu	ust been underta	ken prior to pla	nt operation.		
This equipment must only be drive	n/operated by c	ompetent per	sons and hold	lers of the appropriate license	
Checklist: ☐ Manufacturers' manuals referenced ☐ Copy kept in Master Hires' Risk Managem	nent File				

Authorised by: General Manager - Safety & Personnel Date: 23/10/2023 Review Date: October 2024 Issue No: 1 Page 6 of 7



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 7 of 7
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