

Authorised by:

General Manager - Safety & Personnel

## SAFETY MANAGEMENT SYSTEM

# **Plant and Equipment Risk Assessment**

	Hired From All Master Hire Stores		Exc	cavator Small		Assessed By:	Steven Jose	
Equipment Location:		Equipment:				Signature:	ffr-	
		Manufacturer Details	Var	rious				
Hazard		Action Requir Yes/No		Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Treati Report Form)	ment (Complete Hazard	Risk Level after Risk Treatment (Refer to risk matrix)
Entanglement								
brushes, rags or	air, clothing, gloves, necktie, jewellery, cleaning other materials become entangled with moving t, or materials in motion?			Medium	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Do not remove guar Follow Instructions Maintain Operating while machine is in Travel alarm and ho correctly	in Operator Manual Exclusion Zone use	Low
Crushing								
<ul> <li>Material</li> <li>Uncontroload?</li> <li>Lack of a immobili</li> <li>The plant</li> <li>Parts of Coming testing, i</li> <li>Being th</li> </ul>	nt tipping or rolling over? the plant collapsing? in contact with moving parts of the plant during inspection, use, maintenance, cleaning or repair rown off or under the plant? apped between the plant and materials or fixed es?			Acute	⊠ Elimination     □ Substitution     ☑ Isolation     □ Engineering     ☑ Administration     ☑ PPE	Follow Instructions Specific site Hazard be conducted before Maintain Operating while machine is in ROPS/FOPS to be Travel alarm and he correctly Seatbelt to operate worn when operating Only competent per plant SOP must be follow and services are conful Appropriate PPE medical plant solutions.	A Assessment must e operation Exclusion Zone use correctly fitted orn to operate correctly and be g machine rsons to operate red when checks nducted	High
Cutting, Stabb	oing and Puncturing			•	•			
	be cut, stabbed or punctured due to? in contact with sharp or flying objects?	⊠ Yes □ No		Medium	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering	Follow Instructions Specific site Hazard		Low

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<ul> <li>Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair of the plant?</li> <li>Plant, parts of the plant or work pieces disintegrating?</li> <li>Work pieces being ejected?</li> <li>The mobility of the plant?</li> <li>Uncontrolled or unexpected movement of the plant?</li> <li>Other factors?</li> </ul>			<ul><li>☑ Administration</li><li>☑ PPE</li></ul>	be conducted before operation Maintain Operating Exclusion Zone while machine is in use Only competent persons to operate plant SOP must be followed when checks and services are conducted Appropriate PPE must be worn	
Shearing					
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	Acute	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow Instructions in Operator Manual Specific site Hazard Assessment must be conducted before operation Maintain Operating Exclusion Zone while machine is in use Only competent persons to operate plant SOP must be followed when checks and services are conducted Appropriate PPE must be worn	High
Friction					
Can anyone be burnt, gain abrasions etc due to: <ul> <li>Contact with moving parts or surfaces of the plant, or material handled by the plant?</li> </ul>	☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
Striking					
<ul> <li>Can anyone be struck by moving objects due to:</li> <li>Uncontrolled or unexpected movement of the plant or material handled by the plant?</li> <li>Plant, parts of the plant or work pieces disintegrating?</li> <li>Work pieces being ejected?</li> <li>Mobility of the plant?</li> <li>Other factors?</li> </ul>	⊠ Yes □ No	Acute	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow Instructions in Operator Manual Specific site Hazard Assessment must be conducted before operation Maintain Operating Exclusion Zone while machine is in use Boom Swivel Lockout and Operator Control Locks to operate correctly Only competent persons to operate plant SOP must be followed when checks and services are conducted Appropriate PPE must be worn	High

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# **Plant and Equipment Risk Assessment**

	1				
High Pressure Fluid					
Can anyone come into contact with?  Fluids under high pressure in normal use, in the instance of plant failure?	⊠ Yes □ No	High	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow Instructions in Operator Manual Specific site Hazard Assessment must be conducted before operation Only competent persons to operate plant Pressurised fluid (e.g. hydraulic) lines must be depressurised before connection/disconnection of hoses, fittings and/or couplings SOP must be followed when checks and services are conducted Appropriate PPE must be worn	High
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	Acute	⊠ Elimination     □ Substitution     ☑ Isolation     □ Engineering     ☑ Administration     ☑ PPE	Follow Instructions in Operator Manual Specific site Hazard Assessment must be conducted before operation e.g. Dial Before you Dig; Disconnect/isolate overhead power cables(look up and live) Maintain Operating Exclusion Zone while machine is in use Only competent persons to operate plant SOP must be followed when checks and services are conducted Appropriate PPE must be worn	High
Explosion					
Gases, vapors, liquids, dusts or other substances triggered by the operation of the plant or by materials handled by the plant?	⊠ Yes □ No	Acute	⊠ Elimination     □ Substitution     ☑ Isolation     □ Engineering     ☑ Administration     ☑ PPE	Follow Instructions in Operator Manual Specific site Hazard Assessment must be conducted before operation e.g. Dial Before you Dig; Disconnect/isolate overhead power cables Maintain Operating Exclusion Zone while machine is in use Only competent persons to operate	High

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# **Plant and Equipment Risk Assessment**

				plant SOP must be followed when checks and services are conducted Appropriate PPE must be worn	
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 Instructions in Operator Manual Specific site Hazard Assessment must be conducted before operation Only competent persons to operate plant SOP must be followed when getting on/off equipment e.g. clear path, three points of contact, non slip mat Appropriate PPE must be worn	Low
High Temperature					
Can anyone:     Come into contact with objects at high temperature?     Be injured by fire?	⊠ Yes □ No	Medium	⊠ Elimination     □ Substitution     □ Isolation     □ Engineering     ☑ Administration     ☑ PPE	Do not remove guards Follow Instructions in Operator Manual Specific site Hazard Assessment must be conducted before operation Maintain Operating Exclusion Zone while machine is in use Only competent persons to operate plant SOP must be followed when checks and services are conducted Appropriate PPE must be worn	Low
Temperature and Thermal Comfort			- <del></del>		
Can anyone suffer ill-health due to: <ul><li>Exposure to high or low temperatures?</li><li>Failure of air conditioning equipment?</li></ul>	⊠ Yes □ No	Low	⊠ Elimination     □ Substitution     □ Isolation     ⋈ Engineering     □ Administration     ⋈ PPE	Follow Instructions in Operator Manual Specific site Hazard Assessment must be conducted before Appropriate PPE must be worn	Low
Suffocation					

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? □ Yes □ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
essive al stress? human atural	Low	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow Instructions in Operator Manual Specific site Hazard Assessment must be conducted before operation Only competent persons to operate plant SOP must be followed when checks and services are conducted Appropriate PPE must be worn Use appropriate manual handling aids and techniques when doing manual tasks e.g. changing buckets, cleaning, removing obstructions, maintenance	Low
osure to: ⊠ Yes □ No	Medium	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow Instructions in Operator Manual Specific site Hazard Assessment must be conducted before operation Only competent persons to operate plant SOP must be followed when checks and services are conducted Appropriate PPE must be worn	Low
nt on site must been unde	ertaken prior to p	plant operation?		
	Sessive  essive al stress? human eatural  osure to:	essive al stress? human atural  Source to:    All Mo	Substitution   Isolation   I	Substitution   Subs

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### **Plant and Equipment Risk Assessment**

Checklist:	☐ Hazard Report form for discrepancies reported ☐ Copy kept on Risk Management File

## **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

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		CONSEQUENCE					
SAF		EMENT &YS	TEMinor	Moderate	Major	Catastrophic	
<b>-</b>	Almost certain	3 High	3 High	4 Acute	4 Acute	4 Acute	
Plant	and Equipme	it Risk Asse 2 Medium	ssment 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	
20	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.