

### Plant and Equipment Risk Assessment

	Hired From All Master Hire Stores		Arr	ow Board - Tra	ailerable	Approved By:	Steven Jose	
Equipment Location:		Equipment:				Signature:	for	
		Manufacturer Details	Var	rious		-		
		Action Require Yes/No		Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Trea Report Form)	Risk Level after Risk Treatment (Refer to risk matrix)	
Entangleme	nt							
brushes, rags	hair, clothing, gloves, necktie, jewellery, cleaning or other materials become entangled with moving int, or materials in motion?	☐ Yes ⊠ No			Elimination  Substitution  Isolation  Engineering  Administration  PPE			
Crushing								
<ul> <li>Crushing</li> <li>Can anyone be crushed due to: <ul> <li>Material falling off the plant?</li> <li>Uncontrolled or unexpected movement of the plant or its load?</li> <li>Lack of capacity for the plant to be slowed, stopped or immobilized?</li> <li>The plant tipping or rolling over?</li> <li>Parts of the plant collapsing?</li> <li>Coming in contact with moving parts of the plant during testing, inspection, use, maintenance, cleaning or repair?</li> <li>Being thrown off or under the plant?</li> <li>Being trapped between the plant and materials or fixed structures?</li> <li>Other factors?</li> </ul> </li> </ul>				нідн	<ul> <li>☑ Elimination</li> <li>☑ Substitution</li> <li>☑ Isolation</li> <li>☑ Engineering</li> <li>☑ Administration</li> <li>☑ PPE</li> </ul>	Follow manufactur Obey all warning of Ensure travel of m (forward or reversi personnel Use spotter in rest Ensure all plant an tied down securely Ensure trailer is se towing vehicle Wear appropriate of Ensure exclusion a vehicle while coup	ecals oving plant/vehicle ng) is clear of all ricted areas d attachments are before moving curely coupled to ootwear	MEDIUM
	bing and Puncturing					<b>1</b> -		
<ul> <li>Can anyone be cut, stabbed or punctured due to?</li> <li>Coming in contact with sharp or flying objects?</li> <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> </ul>		⊠ Yes □ No		нідн	<ul> <li>☐ Elimination</li> <li>☐ Substitution</li> <li>☑ Isolation</li> <li>☐ Engineering</li> <li>☑ Administration</li> <li>☑ PPE</li> </ul>	Follow manufactur Obey all warning of Ensure trailer is co level ground Ensure appropriate eye protection, hea When not in use a	ecals upled/uncoupled on PPE is used (e.g. aring and footwear)	MEDIUM

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<ul> <li>The mobility of the plant?</li> <li>Uncontrolled or unexpected movement of the plant?</li> <li>Other factors?</li> </ul>				necessary	
Shearing					
<ul> <li>Can anyone's body parts be:</li> <li>Sheared between two or more parts of the plant, or between a part of the plant and a work piece or structure?</li> </ul>	☐ Yes ⊠ No		Elimination  Substitution  Isolation  Engineering  Administration  PPE		
Friction					
<ul> <li>Can anyone be burnt, gain abrasions etc. due to:</li> <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	<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 Use appropriate prop/s to support elevated mechanisms when conducting inspection or maintenance Ensure travel of moving plant/vehicle (forward or reversing) is free of all personnel Use spotter in restricted areas Ensure all loads are secured while transporting Ensure exclusion zone in and around vehicle while loaded using mechanical aids	HIGH
High Pressure Fluid					
<ul> <li>Can anyone come into contact with?</li> <li>Fluids under high pressure in normal use, in the instance of plant failure?</li> </ul>	☐ Yes ⊠ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
Electrical		•	·	•	
<ul> <li>Can anyone be injured by electrical shock or burnt due to:</li> <li>The plant contacting live electrical conductors?</li> <li>Plant working close to electrical conductors?</li> <li>Overload of electrical circuits?</li> </ul>	⊠ Yes □ No	ACUTE	<ul> <li>☑ Elimination</li> <li>☐ Substitution</li> <li>☑ Isolation</li> <li>☐ Engineering</li> <li>☑ Administration</li> </ul>	Follow manufacturers' instructions Obey all warning decals Ensure all overhead/underground wiring or other obstructions have been	HIGH

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<ul> <li>Damaged or poorly maintenance electrical leads or cables?</li> <li>Damaged electrical switches?</li> <li>Water near electrical equipment?</li> <li>Lack of isolation procedures?</li> <li>Other factors</li> </ul>			D PPE	located prior to commencing work Have power disconnected where wiring may be contacted	
Explosion					•
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		☐ Elimination ☐ Substitution ⊠ Isolation ☐ Engineering ☐ Administration ☐ PPE	Ensure area is free of environmental hazards such as vegetation build up	
Slipping, tripping and Falling		I			
<ul> <li>Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to: <ul> <li>Uneven or slippery work surfaces?</li> <li>Poor housekeeping, such as shavings in the vicinity of the plant, spillage not cleaned up?</li> <li>Obstacles being placed in the vicinity of the plant?</li> <li>Other factors?</li> </ul> </li> </ul>	⊠ 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 plant/vehicle Always observe 'three points of contact' if need to get on/in plant/vehicle Maintain cleanliness of plant/vehicle (inside and out)	LOW
High Temperature					
<ul> <li>Can anyone:</li> <li>Come into contact with objects at high temperature?</li> <li>Come into contact with hot fluids?</li> <li>Be injured by fire?</li> </ul>	☐ Yes ⊠ No		Elimination  Substitution  Isolation  Engineering  Administration  PPE		
Temperature and Thermal Comfort		·	· · · · · · · · · · · · · · · · · · ·	·	·
<ul> <li>Can anyone suffer ill-health due to:</li> <li>Exposure to high or low temperatures?</li> <li>Failure of air conditioning equipment?</li> </ul>	☐ Yes ⊠ No		Elimination     Substitution     Isolation     Engineering     Administration     PPE		
Suffocation					



Can anyone be suffocated due to: <ul> <li>Lack of oxygen, or atmospheric contamination?</li> </ul>	☐ Yes ⊠ No		Elimination  Substitution  Isolation  Engineering  Administration  PPE		
<ul> <li>Ergonomics</li> <li>Can anyone be injured due to: <ul> <li>Poorly designed seating?</li> <li>Repetitive body movements?</li> <li>Constrained body posture or the need for excessive effort?</li> <li>Design deficiency causing physical or personal stress?</li> <li>Inadequate or poorly placed lighting?</li> <li>Lack of consideration given to human error or human behavior?</li> <li>Mismatch of the plant with human traits and natural limitations?</li> <li>Other factors?</li> </ul> </li></ul>	Ves No	LOW	<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 decal Do not operate beyond operators personal capabilities Use suitably designed and secured loading/unloading procedures including crane, hoist, ramps etc. 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	ACUTE	□ 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 Ensure liquids are prevented from spillage Ensure all trailer lights are connected and working properly Maintain vehicle and/or equipment in good working order - report any malfunction or damage to Master Hire immediately and stop using plant/vehicle where it is reasonable to foresee further risk to persons or damage to plant/vehicle Ensure trailer is coupled properly to towing vehicle correctly and all pins/clips and sign board are secure Ensure tyre tread is good on all tyres	HIGH



Operational				Ensure load is evenly and correctly positioned on trailer	
Can anyone be injured by this equipment	⊠ Yes □ No	HIGH	☐ Elimination ☐ Substitution ☐ Isolation ⊠ Engineering ⊠ Administration ⊠ PPE	Follow manufacturers' instructions Obey all warning decals Ensure plant/equipment is on stable ground and clear of obstructions Ensure gears, levers, switches etc. are engaged/disengaged appropriately Ensure all guards and fixtures are in place Ensure appropriate PPEs are used (e.g. eye protection, hearing and footwear) Ensure hold-to-run controls provided for machine are working properly Do not operate on steep slope Ensure area is free of environmental hazards such as vegetation build up, snakes, spiders etc. Ensure handles and other adjustable parts are set right for the operator Ensure guards cover the entire width of the rotating parts	MEDIUM
Other Hazards					



Can anyone be injured of Chemicals? Toxic gases or van Fumes? Dust? Noise? Vibration? Radiation? Other Factors?	or suffer ill-health from exposure to: apors?	☐ Yes ⊠ No	☐ Eliminatio ☐ Substituti ☐ Isolation ☐ Engineeri ☐ Administr ☐ PPE	Obey all warning decals Check for overhead/underground utilities
Further Comments:	A Specific Risk Assessment on site	e must been undert	aken prior to plant operation	on.
Checklist:	Manufacturers' manuals referenced			



### 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

Step 3 Determine the risk score

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						C	ONSEQUENCE	CONSEQUENCE					
	MASTERHIRE		SA		EMENTCar	TEMinor	Moderate	Major	Catastrophic				
	lt on Service			Almost certain	3 High	3 High	4 Acute	4 Acute	4 Acute				
			Plant	and Equipme	nt Risk Asse 2 Medium	ssment <sup>3 High</sup>	3 High	4 Acute	4 Acute				
Cotootronhio	Catastrophic         Death; toxic release of chemicals		7	Possible	1 Low	2 Medium	3 High	4 Acute	4 Acute				
Catastrophic				Unlikely	1 Low	1 Low	2 Medium	3 High	4 Acute				
					1 Low	1 Low	2 Medium	3 High	3 High				
•		<b>jainst the job sequence steps</b> res have no absolute value and should only be	e used f	for comparison an	d to engender di	scussion.)							
Score		Action											
4 A: Acute	ACT NO	W – Urgent – do something about the risks imn	nediatel	y. Requires immed	iate attention.								
3 H: High	Highest	Highest management decision is required urgently.											
2 M: Medium	Follow r	Follow management instructions.											
1 L: Low	OK for r	OK for now. Record and review if any equipment/ people/ materials/ work processes or procedures change.											