


SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

Equipment Location:	Hired From All Master Hire Stores	Equipment:	Traffic Speed Board - Trailable		Approved By:	Steven Jose
				Signature:		
		Manufacturer Details	Various			
Hazard		Action Required Yes/No	Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Treatment (Complete Hazard Report Form)	Risk Level after Risk Treatment (Refer to risk matrix)
Entanglement						
Can anyone's hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags or other materials become entangled with moving parts of the plant, or materials in motion?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input type="checkbox"/> Administration <input type="checkbox"/> PPE		
Crushing						
Can anyone be crushed due to: <ul style="list-style-type: none"> 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? 		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	HIGH	<input checked="" type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	Follow manufacturers' instructions Obey all warning decals Ensure travel of moving plant/vehicle (forward or reversing) is clear of all personnel Use spotter in restricted areas Ensure all plant and attachments are tied down securely before moving Ensure trailer is securely coupled to towing vehicle Wear appropriate footwear Ensure exclusion zone in and around vehicle while coupling to towing vehicle	MEDIUM
Cutting, Stabbing and Puncturing						
Can anyone be cut, stabbed or punctured due to? <ul style="list-style-type: none"> 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? 		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	HIGH	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	Follow manufacturers' instructions Obey all warning decals Ensure trailer is coupled/uncoupled on level ground Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	MEDIUM

SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

<ul style="list-style-type: none"> Work pieces being ejected? The mobility of the plant? Uncontrolled or unexpected movement of the plant? Other factors? 				When not in use apply/use chocks if necessary	
Shearing					
Can anyone's body parts be: <ul style="list-style-type: none"> Sheared between two or more parts of the plant, or between a part of the plant and a work piece or structure? 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input type="checkbox"/> Administration <input type="checkbox"/> PPE		
Friction					
Can anyone be burnt, gain abrasions etc. due to: <ul style="list-style-type: none"> Contact with moving parts or surfaces of the plant, or material handled by the plant? 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input type="checkbox"/> Administration <input type="checkbox"/> PPE		
Striking					
Can anyone be struck by moving objects due to: <ul style="list-style-type: none"> 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? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ACUTE	<input checked="" type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input type="checkbox"/> PPE	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					
Can anyone come into contact with? <ul style="list-style-type: none"> Fluids under high pressure in normal use, in the instance of plant failure? 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input type="checkbox"/> Administration <input type="checkbox"/> PPE		
Electrical					
Can anyone be injured by electrical shock or burnt due to: <ul style="list-style-type: none"> The plant contacting live electrical conductors? Plant working close to electrical conductors? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ACUTE	<input checked="" type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input type="checkbox"/> Engineering	Follow manufacturers' instructions Obey all warning decals Ensure all overhead/underground	HIGH

SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

<ul style="list-style-type: none"> 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 			<input checked="" type="checkbox"/> Administration <input type="checkbox"/> PPE	<i>wiring or other obstructions have been located prior to commencing work</i> <i>Have power disconnected where wiring may be contacted</i>	
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input checked="" type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input type="checkbox"/> Administration <input type="checkbox"/> PPE	<i>Ensure area is free of environmental hazards such as vegetation build up</i>	
Slipping, tripping and Falling					
Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to: <ul style="list-style-type: none"> 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? 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MEDIUM	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> PPE	<i>Follow manufacturers' instructions</i> <i>Obey all warning decals</i> <i>Wear appropriate footwear</i> <i>Use steps provided when getting in/on plant/vehicle</i> <i>Always observe 'three points of contact' if need to get on/in plant/vehicle</i> <i>Maintain cleanliness of plant/vehicle (inside and out)</i>	LOW
High Temperature					
Can anyone: <ul style="list-style-type: none"> Come into contact with objects at high temperature? Come into contact with hot fluids? Be injured by fire? 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input type="checkbox"/> Administration <input type="checkbox"/> PPE		
Temperature and Thermal Comfort					
Can anyone suffer ill-health due to: <ul style="list-style-type: none"> Exposure to high or low temperatures? Failure of air conditioning equipment? 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input type="checkbox"/> Engineering <input type="checkbox"/> Administration <input type="checkbox"/> PPE		

SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

Suffocation

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

LOW

☒ Elimination
☐ Substitution
☐ Isolation
☒ Engineering
☒ Administration
☐ PPE

*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*

HIGH

SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

				and sign board are secure Ensure tyre tread is good on all tyres Ensure load is evenly and correctly positioned on trailer	
Operational					
Can anyone be injured by this equipment	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	HIGH	<input type="checkbox"/> Elimination <input type="checkbox"/> Substitution <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Engineering <input checked="" type="checkbox"/> Administration <input checked="" type="checkbox"/> 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

SAFETY MANAGEMENT SYSTEM

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

☐ Elimination
☐ Substitution
☐ Isolation
☐ Engineering
☐ Administration
☐ PPE

*Follow manufacturers' instructions
 Obey all warning decals
 Check for overhead/underground utilities
 (gas, water, electrical) before operation
 Ensure equipment is appropriately
 labeled and meet the relevant State
 Legislative requirements
 Maintain plant/vehicle 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 equipment*

Further Comments:

A Specific Risk Assessment on site must be undertaken prior to plant operation.

Checklist:

- ☒ Manufacturers' manuals referenced
☒ Copy kept in Master Hires' 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

LIKELIHOOD	CONSEQUENCE				
	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.