

# Plant and Equipment Risk Assessment

	Hired From All Master Hire Stores			Va	cuum Cleaner -	- H Class	Approved By:	Ben Pooley	
	niled Fiolii All Master file Stores			Automatic PortaVac		Арргочец Бу.	Bell Pooley		
Equipment Equipment Location:		Equipment:		Dry		Signature:	a. Tooley		
			nufacturer	Fle	extool				
Hazard		Deta	Action Required Yes/No	i	Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Treat Report Form)	ment (Complete Hazard	Risk Level after Risk Treatment (Refer to risk matrix)
Entanglen						T			
brushes, rag	e's hair, clothing, gloves, necktie, jewellery, cleaning gs or other materials become entangled with moving plant, or materials in motion?		☐ Yes ☑ No			☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE			
Crushing									
Can anyone  Mat  Unc load Lac imm The Part Con testi Beir strue Othe	k of capacity for the plant to be slowed, stopped or nobilized? plant tipping or rolling over? is of the plant collapsing? ning in contact with moving parts of the plant during ing, inspection, use, maintenance, cleaning or repaing thrown off or under the plant? Ing trapped between the plant and materials or fixed ctures? In factors?	J ir?	☐ Yes ☑ No		LOW	⊠ Elimination     □ Substitution     ☑ Isolation     □ Engineering     ☑ Administration     □ PPE	<ul> <li>unwanted mov</li> <li>Always operate collector on staground.</li> <li>Only trained op to operate the Develop a Safe</li> </ul>	storage to prevent ement. e and store the dust able and even perators are allowed equipment.	LOW
	tabbing and Puncturing					T	<b>,</b>		
Con Con testi	e be cut, stabbed or punctured due to?  ning in contact with sharp or flying objects?  ning in contact with moving parts of the plant during ing, inspection, operation, maintenance, cleaning or air of the plant?  nt, parts of the plant or work pieces disintegrating?		☐ Yes ☑ No			☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE			

Authorised by:	General Manager - People & Safety	Created: 01/12/2025 Reviewed: 04/12/2025	Issue No: 1	Page 1 of 9



# Plant and Equipment Risk Assessment

<ul> <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>				
hearing	<u> </u>			
between a part of the plant and a work piece or structure?	☐ Yes ☑ No	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
riction				
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		
triking				
<ul> <li>an 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 LOW	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE	operation and storage to prevent unwanted movement.  Always operate and store the dust collector on stable and even ground.	LOW
igh 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		
lectrical		<u> </u>		
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	⊠ Yes MEDIUM	⊠ Elimination     □ Substitution     ☑ Isolation     □ Engineering     ☑ Administration     □ PPE	Tollow manaraotaroro motraotiono.	LOW
<ul> <li>Fluids under high pressure in normal use, in the instance of plant failure?</li> <li>lectrical</li> <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>	⊠ No    Solution   No   No   No   No   No   No   No	□ Substitution □ Isolation □ Engineering □ Administration □ PPE □ Substitution □ Substitution □ Isolation □ Engineering □ Administration	Develop a Safe Work Method Statement for the operation of the equipment.  Follow manufacturers' instructions. Obey all warning decals. ALWAYS inspect power leads and cables for damage (cuts and	LOV

Authorised by: General Manager - People & Safety Created: 01/12/2025 Reviewed: 04/12/2025 Issue No: 1 Page 2 of 9



# Plant and Equipment Risk Assessment

	<u> </u>	<u> </u>			
cables?  Damaged electrical switches?				damaged plugs, etc.) prior to and periodically during operation. If	
<ul> <li>Water near electrical equipment?</li> </ul>				damaged cables are identified,	
<ul> <li>Lack of isolation procedures?</li> </ul>				isolate equipment and have it	
Other factors				repaired immediately by a licenced	
				electrician.	
				ALWAYS fully uncoil electrical	
				leads during operation.	
				ALWAYS inspect electrical	
				switches for damage and correct	
				operation.	
				Never allow exposure of the dust	
				collector to water.	
				<ul> <li>Ensure TNT is current.</li> </ul>	
				<ul> <li>Ensure exclusion zone in and</li> </ul>	
				around area of work.	
Explosion		<del>,</del>			
Can anyone be injured by fuels such as gases, vapors, liquids,	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution	<ul> <li>Follow manufacturers' instructions.</li> </ul>	LOW
dusts or other substances being ignited triggered by the operation	□ NO			<ul> <li>Obey all warning decals.</li> </ul>	
of the plant or by materials handled by the plant?			☐ Engineering ☑ Administration	<ul> <li>P2 Dust mask and safety glasses</li> </ul>	
			⊠ PPE	must be worn during operation and	
				maintenance.	
				<ul> <li>ALWAYS ensure hoses, bagging</li> </ul>	
				system and other accessories are	
				fitted correctly.	
				ALWAYS ensure filters are fitted	
				correctly and in good operating	
				condition.	
				<ul> <li>Empty bags regularly and don't overfill.</li> </ul>	
				<ul> <li>Replace damaged or missing warning decals that relate to dust</li> </ul>	
				exposure.	
				<ul> <li>Do not operate in areas where</li> </ul>	
				flammables are present.	
Slipping, tripping and Falling		<u> </u>			
Can anyone using the plant, or in the vicinity of the plant, slip, trip	⊠ Yes □ No	MEDIUM	Elimination	Follow manufacturers' instructions.	LOW
or fall due to:	□ No		<ul><li>☐ Substitution</li><li>☐ Isolation</li></ul>	Obey all warning decals.	
	I	<u>l</u>		,	

Authorised by: General Manager - People & Safety Created: 01/12/2025 Reviewed: 04/12/2025 Issue No: 1 Page 3 of 9



# Plant and Equipment Risk Assessment

<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>		1	<ul> <li>☑ Engineering</li> <li>☑ Administration</li> <li>☑ PPE</li> </ul>	<ul> <li>Wear PPE (e.g. steel cap boots).</li> <li>Lock castor wheels during operation and storage to prevent unwanted movement.</li> <li>Never operate equipment with damaged, broken or missing guards.</li> <li>Take regular breaks if the task entails long duration time.</li> <li>Undertake task during times of low pedestrian traffic.</li> <li>Operator to inspect work environment for hazards prior to commencing work.</li> <li>Assess work area prior to operating equipment, always operate and store the dust collector on stable and even ground.</li> <li>Maintain good housekeeping of hoses and power cables, these can create a tripping hazard.</li> <li>Keep pathways and walk clear.</li> </ul>	
High Tompoveture				recep patriways and want clear.	
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	<ul> <li>Follow manufacturers' instructions.</li> <li>Obey all warning decals.</li> <li>Do not touch electric motors that generate heat during or immediately after operation.</li> <li>Wait for electric motors and equipment to completely cool down prior to commencing repairs or maintenance.</li> <li>Be aware of body responses to adverse/extreme weather conditions (hot/cold).</li> <li>Wear appropriate clothing.</li> </ul>	LOW
Temperature and Thermal Comfort					

Authorised by: General Manager - People & Safety Created: 01/12/2025 Reviewed: 04/12/2025 Issue No: 1 Page 4 of 9



# Plant and Equipment Risk Assessment

Can anyone suffer ill-health due to:  Exposure to high or low temperatures?  Failure of air conditioning equipment?	⊠ Yes □ No	LOW	⊠ Elimination     □ Substitution     □ Isolation     □ Engineering     □ Administration     ☑ PPE	<ul> <li>Follow manufacturers' instructions.</li> <li>Obey all warning decals.</li> <li>Be aware of body responses to adverse/ extreme weather conditions (hot/cold).</li> <li>Wear appropriate clothing.</li> </ul>	LOW
Suffocation					
Can anyone be suffocated due to:  Lack of oxygen, or atmospheric contamination?	☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
Ergonomics					<u>l</u>
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	<ul> <li>Follow manufacturers' instructions.</li> <li>Regular inspection by competent person of loading ramps for damage or material fatigue.</li> <li>Never load or unload from transport vehicle with material in the bagging system, remove bagging system to reduce weight.</li> <li>Never drag or pull the dust collectors by the hose or power cord.</li> <li>Always follow correct manual handling techniques.</li> <li>Wearing of PPE (steel cap boots and gloves).</li> <li>Manual handling training.</li> </ul>	LOW

Authorised by: General Manager - People & Safety Created: 01/12/2025 Reviewed: 04/12/2025 Issue No: 1 Page 5 of 9



# Plant and Equipment Risk Assessment

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	<ul> <li>Follow manufacturers' instructions.</li> <li>Obey all warning decals.</li> <li>Ensure all equipment is restraint according to the NVHR load restraint guidelines.</li> <li>Inspect straps and ropes for damage prior to use.</li> <li>Secure equipment using suitable tie down points on both equipment and vehicle.</li> <li>Lock castor wheels or lay equipment flat where possible during transport and storage to prevent unwanted movement.</li> <li>Ensure equipment, attachments and sundry items are securely tied down.</li> <li>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.</li> </ul>	LOW
Operational	M Vaa	LIOW	☐ Elimination	T = "	LOW
Can anyone be injured by this equipment	⊠ Yes □ No	LOW	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	<ul> <li>Follow manufacturers' instructions.</li> <li>Obey all warning decals.</li> <li>Ensure plant/equipment is on stable ground.</li> <li>Complete service and maintenance as scheduled in the equipment owners' manuals.</li> <li>Complete a prestart checklist prior to use.</li> <li>Report faults to Master Hire for repair. Do not use unsafe equipment.</li> <li>Ensure appropriate PPEs are used</li> </ul>	LOW



# Plant and Equipment Risk Assessment

				<ul> <li>(e.g. protection for eyes, hearing and footwear).</li> <li>Ensure plant/vehicle is switched off before making any adjustments.</li> </ul>	
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?		LOW	□ Elimination □ Substitution □ Isolation □ Engineering □ Administration □ PPE	<ul> <li>Follow manufacturers' instructions.</li> <li>Obey all warning decals.</li> <li>Ensure appropriate clothing is wom.</li> <li>Ensure equipment is appropriately labeled and meet the relevant State Legislative requirements.</li> <li>Complete service and maintenance as scheduled in the equipment owners' manuals.</li> <li>Wear PPE hearing protection.</li> <li>Replace damaged or missing warning decals requiring the use of hearing protection.</li> <li>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</li> <li>Dispose of bag waste appropriately prior to transport, eliminating exposure to any collected containments.</li> <li>Ensure work performed is within an area with adequate ventilation.</li> </ul>	OW

Authorised by: General Manager - People & Safety Created: 01/12/2025 Reviewed: 04/12/2025 Issue No: 1 Page 7 of 9



# 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:	<ul> <li>✓ Manufacturers' manuals referenced</li> <li>✓ Copy kept in Master Hires' Risk Management File</li> </ul>

Authorised by: General Manager - People & Safety Created: 01/12/2025 Reviewed: 04/12/2025 Issue No: 1 Page 8 of 9



## 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		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.			

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Authorised by: General Man	ager - People & Safety	Created: 01/12/2025 Reviewed: 04/12/2025	Issue No: 1	Page 9 of 9
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