

PLANT HSE RISK ASSESSMENT



PLANT AND EQUIPMENT RISK ASSESSMENT								
Plant: any machinery, equipment, appliance, implement, or tool and any component or fitting thereof or accessory thereto, which is either 'pressurised' or 'energised' plant, other than plant energised by human or animal energy.								
Plant Description		Plant Photo		Risk Assessment No:		Plant Location:		
						Date:		
						Serial No:		
				Assessed by:		Workplace:		
HAZARDS: Hazards likely to be associated with the plant. (Please Tick if Yes) Refer to AS 4024.1:2006 Safety of Machinery for Hazard Identification, Risk Assessment and Hazard Control information.								
Item	Hazard	Yes	Item	Hazard	Yes	Item	Hazard	Yes
1	Entanglement		6	Striking		11	Lack of supervision/ training	
2	Access		7	High pressure fluid		12	High/low temperature	
3	Crushing		8	Electrical		13	Other (Specify)	
4	Cutting/stabbing/puncturing		9	Slipping, tripping and falling				
5	Friction		10	Ergonomic				

Step 1 Determine Likelihood		Step 2 Determine Consequence			Step 3 Determine the Risk					
Likelihood		Consequence				1	2	3	4	5
A	Consequence is expected to occur in most circumstances.	1	Fatality or disability. High cost losses		A	E	E	E	H	H
B	Consequence will probably occur in many circumstances.	2	Lost time injury. Medium to high cost losses		B	E	E	H	H	M
C	Consequence will probably occur in some circumstances.	3	Medical treatment. Medium to low cost losses		C	E	H	H	M	L
D	Consequence may occur in some circumstances.	4	First aid treatment. Minor cost losses.		D	H	H	M	L	L
E	Consequence may occur but only in exceptional circumstances.	5	Near-miss (near hit). Possible minimal consequences		E	H	M	M	L	L

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ITEM	HAZARD	Y/N	RISK RATING	CURRENT HAZARD CONTROL OPTIONS	RECOMMENDED HAZARD CONTROL OPTIONS
1	Entanglement				
	Can hair clothing, gloves, jewellery or other materials be entangled with moving parts?				
2	Access				
	Can persons access moving parts of the plant e.g. belts, gears without the need for a tool to open guarded areas				
3	Crushing				
	• Can persons be crushed due to:				
	Material falling from plant?				
	Lack of ability for plant to be slowed or stopped?				
	The plant tipping or rolling over?				
	Coming in contact with moving parts of the plant during inspection, operation or maintenance?				
4	Being trapped between the plant and structures?				
	FOPS/ROPS				
	• Can persons be injured due to:				
	Lack of FOPS?				
5	Lack of ROPS?				
	Cutting/stabbing/puncturing:				
6	Can body parts be caught between two parts of the plant or between working pieces?				
	Friction:				
7	Can anyone be burnt due to contact with moving parts or surfaces of the plant?				
	Striking:				
	• Can anyone be struck by moving objects due to:				
	Uncontrolled or unexpected movement of the plant or material handled by the plant?				
8	The plant, parts of the plant or work pieces being disintegrated or ejected?				
	High pressure fluid:				

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ITEM	HAZARD	Y/N	RISK RATING	CURRENT HAZARD CONTROL OPTIONS	RECOMMENDED HAZARD CONTROL OPTIONS
	Can anyone come into contact with fluids under high pressure?				
9	Electrical				
	Can anyone be electrocuted or burnt due to:				
	The plant contacting live electrical conductors?				
	The plant working in close proximity to electrical conductors?				
	Overload of electrical circuits?				
	Damaged or poorly maintained electrical leads and cables?				
	Damaged electrical switches?				
	Water near electrical equipment?				
	Lack of isolation procedure?				
10	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?				
11	Ergonomic:				
	Can anyone be injured due to:				
	Poor designed seating?				
	Items of plant being placed close together or in walkways?				
12	Lack of supervision or training:				
	Can anyone be injured due to inadequate supervision or training?				
13	High / Low temperature:				
	Can anyone come into contact with objects at high temperatures e.g. fire, steam or low temperatures e.g. liquid Nitrogen?				
14	Other:				
	Can anyone be injured or suffer ill health from exposure to chemicals, gases, fumes, dusts, noise or vibration?				
15	Environmental:				

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ITEM	HAZARD	Y/N	RISK RATING	CURRENT HAZARD CONTROL OPTIONS	RECOMMENDED HAZARD CONTROL OPTIONS
	Can the environment be adversely impacted by exposure to chemicals, fuels, lubricants, gases, fumes, dusts, noise or vibration?				