

Plant Hazard Identification and Risk Assessment

Risk Matrix

		CONSEQUENCE				
		Minor	Significant	Serious	Critical	Disastrous
PROBABILITY	Almost Certain	CAT 3 110	CAT 2 160	CAT 1 200	CAT 1 230	CAT 1 250
	Good Chance	CAT 4 70	CAT 3 120	CAT 2 170	CAT 1 210	CAT 1 240
	Likely	CAT 4 70	CAT 3 120	CAT 3 170	CAT 2 210	CAT 1 240
	Unlikely	CAT 4 70	CAT 4 120	CAT 3 170	CAT 2 210	CAT 2 240
	Extremely Unlikely	CAT 4 10	CAT 4 30	CAT 4 60	CAT 3 100	CAT 2 150

CONSEQUENCE		PROBABILITY	
Disastrous	Fatality or Permanent Serious Disability. Extensive environmental damage. > \$250K property damage	Almost Certain	Is expected to occur in most circumstances
Critical	Extensive injuries, permanent part disability. Major environmental damage. \$50,000-\$250,000 property damage.	Good Chance	Would probably occur in most circumstances
Serious	>1week off normal duties. Moderate environmental damage. \$10,000-\$50,000 property damage.	Likely	Might occur at some time
Significant	<1 week off normal duties. Minor environmental damage. \$2,000-\$10,000 property damage.	Unlikely	Could occur at some time
Minor	First aid injury. Negligible Environmental Damage. <\$2,000 Property Damage.	Extremely Unlikely	Practically impossible

Hierarchy of Control Table

The most desirable option



The least desirable option

1	Elimination	EL	If you eliminate a hazard you completely eliminate the associated risk.
2	Substitution	S	You can substitute something else (a substance or a process) that has less potential to cause injury.
3	Isolation / engineering	En	You can make a structural change to the work environment or work process to interrupt the path between the worker and the risk.
4	Administrative	A	You may be able to reduce risk by upgrading training, changing rosters or other administrative actions.
5	Personal protective	PPE	When you can't reduce the risk of injury in any other way, use personal protective equipment (gloves, goggles, etc.) as a last resort

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Equipment Name: _____

Make, Model: _____

Asset No. (if required) _____

Hazard Type	Hazard Rating	Describe how and when <small>(During operation, inspection, maintenance)</small>	Consequence <small>(Seriousness of injury)</small>	Probability <small>(How likely is an incident?)</small>	Recommended Controls <small>(Must used Hierarchy of control when determining most appropriate)</small>
Entanglement: Hair, clothing, gloves, etc. may become entangled in moving parts of equipment					
Crushing: Due to, unexpected movement, falling loads, plant collapse, contact with moving parts of equipment					
Cutting, Stabbing, Puncturing: Contact with sharp objects, contact with moving parts, disintegration or ejection of equipment parts					

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Shearing: Between two moving parts of the equipment or between a fixed object and moving part					
Friction: Burnt due to contact with moving parts or material					
Striking: Struck due to uncontrolled movement, disintegration or ejection of equipment parts					
Electrical: Contact with live wires, overload of circuits, damaged or poorly maintained equipment					
Explosion: Due to gases or other substances during operation of the equipment					

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Slipping, tripping: Due to poor housekeeping, obstacles					
Falling: Due to lack of work platform, stair or ladders, unprotected holes, penetrations, poor floor surfaces					
Ergonomic factors: Poorly designed seating, repetitive body movement, poor body posture, excessive effort, poor lighting					
High Pressure Fluid: Contact with fluids under pressure due to failure or misuse					
Suffocation: Due to lack of oxygen or atmospheric contamination					

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High temperature or Fire: Contact with objects at high temperature or injured by fire					
Temperature (thermal comfort): Ill health due to exposure to high or low temperatures					
Other Hazards: <ul style="list-style-type: none">• Chemicals - Toxic Gases or Vapours, Fumes, Dusts• Noise - Noise levels > 85db(A)• Vibration• Radiation• Other (Please specify)					

Always follow the manufacturer's operators manual instructions and conduct a site specific risk assessment. The above information can only be general in nature and used as a guide if the hirer uses this item of equipment for the purpose intended by the manufacturer.

Person/s carrying out assessment:

Name: _____ Role: _____ Date: _____

Reviewed by:

Name: _____ Role: _____ Date: _____