

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 (During operation, inspection, maintenance)	Consequence (Seriousness of injury)	Probability (How likely is an incident?)	Recommended Controls (Must used Hierarchy of control when determining most appropriate)
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: • 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: _____