

MACHINERY RISK ASSESSMENT CHECKLIST

Can anyone become entangled?	Yes/No	How and where could this occur?
Can a person's hair, clothing, gloves, necktie, jewellery, cleaning brush or rag become entangled with moving parts of the plant?		

Can anyone be crushed due to:	Yes/No	How and where could this occur?
Material falling off the plant?		
Uncontrolled or unexpected movement of the plant?		
Lack of capacity for the plant to be slowed, stopped or immobilised?		
The plant tipping or rolling over?		
Parts of the plant collapsing?		
Coming into contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair?		
Being thrown off or under plant?		
Being trapped between the plant and materials or fixed structures?		

Can anyone be stabbed or punctured due to:	Yes/No	How and where could this occur?
Coming in contact with sharp or flying objects?		
Coming in contact with moving parts during testing, inspection, operation, maintenance, cleaning or repair?		
The plant, parts of the plant or work pieces disintegrating?		
Work pieces being ejected?		
The mobility of the plant?		
Uncontrolled or unexpected movement of the plant?		

Shearing	Yes/No	How and where could this occur?
Can anyone's body parts be sheared between two parts of the plant, or between a part of the plant and a work piece or structure?		

High Pressure Fluid	Yes/No	How and where could this occur?
Can anyone come into contact with fluids under high pressure, due to plant failure or misuse of the plant?		

Striking. Can anyone be struck by moving objects due to:	Yes/No	How and where could this occur?
Uncontrolled or unexpected movement of the plant or material handled by the plant?		
Parts of the plant or work pieces disintegrating?		
Work pieces being ejected?		
Mobility of the plant?		

Explosion: Can anyone be injured due to:	Yes/No	How and where could this occur?
Explosion of gases, vapours, liquids, dusts or other substances, triggered by the operation of the plant or by material handled by the plant?		



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Electrical: Can anyone be injured by electrical shock or burnt due to:	Yes/No	How and where could this occur?
The plant contacting or working in close proximity to electrical conductors, such as Arcflash?		
Overload of electrical circuits?		
Damaged or poorly maintained electrical leads and cables?		
Damaged electrical switches?		
Water near electrical equipment?		
Lack of isolation procedures?		

Slip, trips and falls. Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to:	Yes/No	How and where could this occur?
Uneven or slippery work surfaces?		
Poor housekeeping e.g. offcuts, cables, hoses obstructing walkways, spills not cleaned up?		
Obstacles being placed in the vicinity of the plant?		
Lack of a proper work platform, stairs or ladders?		
Lack of guardrails or other suitable edge protection?		
Unprotected holes, penetrations or gaps?		
Steep walking surfaces?		
Collapse of the supporting structure?		
Limited space around machinery for people to work or workers on foot? (600mm minimum width)		

Ergonomics. Can anyone be injured due to	Yes/No	How and where could this occur?
Poorly designed seating or operator controls?		
High forces or vibration?		
Repetitive movements?		
Awkward body posture or the need for excessive effort?		
Reaching an Emergency Stop from where they work?		

Can anyone be injured due to unexpected start-up, unexpected over-run/over-speed from:	Yes/No	How and where could this occur?
Failure/disorder of the control system, for example a hydraulic or pneumatic system?		
Restoration of energy supply after an interruption or emergency stop function?		
External influences on electrical equipment?		
Other environmental factors (gravity, wind, etc.)?		
Errors in the software?		
Errors made by the operator?		

Other hazards. Can anyone be injured due to:	Yes/No	How and where could this occur?
Noise?		
Inadequate or poorly placed lighting?		
Entry into any confined spaces of the plant?		
Use of the plant outside it's design?		
Contact with hot or cold parts of plant?		
Exposure to hazardous chemicals or other emissions?		
Lack of operator knowledge, competency or experience?		

