



NEW ZEALAND

SAFETY GUARDING

Plant Hazard Check List

* Some questions to assist you in helping to identify hazards arising from plant and equipment. *

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PLANT HAZARD CHECKLIST

OBJECTIVES

The objective of this Plant Hazard Checklist is to provide a typical range of questions that will assist someone in identifying various hazards associated with plant and equipment.

This form is to be used as a starting point, with certain questions added or deleted to make the checklist appropriate to the plant and associated systems of work being examined.

It is important to understand that this list of questions is by no means the only questions you should ask. Every factory, plant or associated equipment has different factors that help determine the level of hazard that can be present. By using this document and expanding on these questions you will be well on the way to identifying your hazards.

Once the check lists have been completed fax them through to the fax number on the front page of this document.

One of our support staff will then contact you to assist with providing hazard ID.

If “yes” is the answer to a question in the checklist, the plant, parts of the plant and/or the situation associated with the hazard, should be identified on the checklist.

The following are examples of hazards identified and recorded in checklists:

- someone’s fingers may get caught between the two rollers of the paper processing machine;
- the pipe containing high pressure fluids in the stamping machine may burst;
- the boom of the mobile crane may touch the overhead power lines;

- people may trip over the electric power lead for the bench grinder;

When completing the checklist, consider the hazards that may affect:

- plant operators
- anyone working, or in the vicinity of the plant
- others who could be affected, such as casual staff, visitors, contractors, etc.

Hazard Type	Description	Yes/No	Describe Hazard
CUTTING, STABBING & PUNCTURING	Can anyone be cut, stabbed or punctured due to coming in contact with sharp or flying objects?		
	Can anyone be cut, stabbed or punctured due to coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair of the plant?		
	Can anyone be cut, stabbed or punctured due to the plant, parts of the plant or work pieces disintegrating?		
	Can anyone be cut, stabbed or punctured due to work pieces being ejected?		
	Can anyone be cut, stabbed or punctured due to the mobility of the plant?		
	Can anyone be cut, stabbed or punctured due to uncontrolled or unexpected movement of the plant?		
	Can anyone be cut, stabbed or punctured due to other factors not mentioned?		

If "yes" is the answer to a question in the checklist, the plant, parts of the plant and/or the situation associated with the hazard should be written in the space provided.

Hazard Type	Description	Yes/No	Describe Hazard
STRIKING	Can anyone be struck by moving objects due to uncontrolled or unexpected movement of the plant or material handled by the plant?		
	Can anyone be struck by moving objects due to the plant, parts of the plant or work pieces disintegrating?		
	Can anyone be struck by moving objects due to work pieces being ejected?		
	Can anyone be struck by moving objects due to mobility of the plant?		
	Can anyone be struck by moving objects due to other factors not mentioned?		
SHEARING	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?		
FRICTION	Can anyone be burnt due to contact with moving parts or surfaces of the plant, or material handled by the plant?		

If "yes" is the answer to a question in the checklist, the plant, parts of the plant and/or the situation associated with the hazard should be written in the space provided.

Hazard Type	Description	Yes/No	Describe Hazard
SLIPPING TRIPPING & FALLING	Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to uneven or slippery work surfaces?		
	Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to poor housekeeping, e.g. swarf in the vicinity of the plant, spillage not cleaned up?		
	Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to obstacles being placed in the vicinity of the plant?		
	Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to other factors not mentioned?		
	Can anyone fall from a height due to lack of a proper work platform?		
	Can anyone fall from a height due to lack of proper stairs or ladders?		
	Can anyone fall from a height due to lack of guardrails or other suitable edge protection?		
	Can anyone fall from a height due to unprotected holes, penetrations or gaps?		

If "yes" is the answer to a question in the checklist, the plant, parts of the plant and/or the situation associated with the hazard should be written in the space provided.

Hazard Type	Description	Yes/No	Describe Hazard
SLIPPING TRIPPING & FALLING	Can anyone fall from a height due to poor floor or walking surfaces, such as the lack of a slip-resistant surface?		
	Can anyone fall from a height due to steep walking surfaces?		
	Can anyone fall from a height due to collapse of the supporting structure?		
	Can anyone fall from a height due to other factors not mentioned?		
ENTANGLEMENT	Can anyone's hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags or other materials become entangled with moving parts of the plant, or materials in motion?		
HIGH PRESSURE FLUID	Can anyone come into contact with fluids under high pressure, due to plant failure or misuse of the plant?		
EXPLOSION	Can anyone be injured by explosion of gases, vapours, liquids, dusts or other substances, triggered by the operation of the plant or by material handled by the plant?		

If "yes" is the answer to a question in the checklist, the plant, parts of the plant and/or the situation associated with the hazard should be written in the space provided.

Hazard Type	Description	Yes/No	Describe Hazard
ELECTRICAL	Can anyone be injured by electrical shock or burnt due to the plant contacting live electrical conductors?		
	Can anyone be injured by electrical shock or burnt due to the plant working in close proximity to electrical conductors?		
	Can anyone be injured by electrical shock or burnt due to overload of electrical circuits?		
	Can anyone be injured by electrical shock or burnt due to damaged or poorly maintained electrical leads and cables?		
	Can anyone be injured by electrical shock or burnt due to damaged electrical switches?		
	Can anyone be injured by electrical shock or burnt due to water near electrical equipment?		
	Can anyone be injured by electrical shock or burnt due to lack of isolation procedures?		
	Can anyone be injured by electrical shock or burnt due to other factors not mentioned?		

If "yes" is the answer to a question in the checklist, the plant, parts of the plant and/or the situation associated with the hazard should be written in the space provided.

Hazard Type	Description	Yes/No	Describe Hazard
ERGONOMIC	Can anyone to be injured due to poorly designed seating?		
	Can anyone to be injured due to repetitive body movement?		
	Can anyone to be injured due to constrained body posture or the need for excessive effort?		
	Can anyone to be injured due to design deficiency causing mental or psychological stress?		
	Can anyone to be injured due to inadequate or poorly placed lighting?		
	Can anyone to be injured due to lack of consideration given to human error or human behaviour?		
	Can anyone to be injured due to mismatch of the plant with human traits and natural limitations?		
	Can anyone to be injured due to other factors not mentioned? For more information refer to www.osh.govt.nz Code of Practices for Manual Handling.		

If "yes" is the answer to a question in the checklist, the plant, parts of the plant and/or the situation associated with the hazard should be written in the space provided.

Hazard Type	Description	Yes/No	Describe Hazard
CRUSHING	Can anyone be crushed due to material falling off the plant?		
	Can anyone be crushed due to uncontrolled or unexpected movement of the plant or its load?		
	Can anyone be crushed due to lack of capacity for the plant to be slowed, stopped or immobilised?		
	Can anyone be crushed due to the plant tipping or rolling over?		
	Can anyone be crushed due to parts of the plant collapsing?		
	Can anyone be crushed due to coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair?		
	Can anyone be crushed due to being thrown off or under the plant?		
	Can anyone be crushed due to being trapped between the plant and materials or fixed structures?		

Hazard Type	Description	Yes/No	Describe Hazard
CRUSHING	Can anyone be crushed due to other factors not mentioned?		
HIGH TEMPERATURE OR FIRE	Can anyone come into contact with objects at high temperatures?		
	Can anyone be injured by fire?		
TEMPERATURE	Can anyone suffer ill-health due to exposure to high or low temperatures?		
SUFFOCATION	Can anyone be suffocated due to lack of oxygen, or atmospheric contamination?		

If "yes" is the answer to a question in the checklist, the plant, parts of the plant and/or the situation associated with the hazard should be written in the space provided.

Hazard Type	Description	Yes/No	Describe Hazard
OTHER HAZARDS	<p>Can anyone be injured or suffer ill-health from exposure to chemicals?</p> <p>For more information refer to www.osh.govt.nz for Code of Practices for Hazardous Substances and Storage & Handling of Dangerous Goods.</p>		
	<p>Can anyone be injured or suffer ill-health from exposure to toxic gases or vapours?</p>		
	<p>Can anyone be injured or suffer ill-health from exposure to fumes?</p>		
	<p>Can anyone be injured or suffer ill-health from exposure to dust?</p>		
	<p>Can anyone be injured or suffer ill-health from exposure to noise?</p> <p>For more information refer to www.osh.govt.nz for Code of Practices for Noise.</p>		
	<p>Can anyone be injured or suffer ill-health from exposure to vibration?</p>		
	<p>Can anyone be injured or suffer ill-health from exposure to radiation?</p>		
	<p>Can anyone be injured or suffer ill-health from exposure to other factors not mentioned?</p>		