








High risk tools

Use of the following tools can carry a higher risk of harm.

Please inform your supervisor or Contact representative if you need to use the tool to complete your work. A higher level of risk assessment may be required depending on the application.





Reference image	Description and location status	Status justification	Approved tooling or method
	Kitchen knives. Fixed Stanley knife. Utility knives. Box cutter knife. Razor blade knives.	Numerous serious injuries across industries.	There are safer alternatives available like retracting knives and those with protected blades. Consider using them depending on the application. 
	Angle grinders with grinding discs larger than 175mm (7").	Numerous serious injuries across industries.	Large grinders will preferably have emergency brake, kickback detection, and soft start.






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	Angle grinders and other tools without fail safe “or” “dead man” switches.	Numerous serious injuries across industries.	Grinders and other tools will preferably have “dead men” switches for ‘hold to run’ operation so they stop if the trigger is released.
	Power tools with handle(s) or guards removed.	Numerous injuries resulting from tool use without handles in place.	Handles and guards MUST always be fitted to tools before use. Guard MUST be adjustable to protect the operator. The side handle MUST be adjustable for both left- and right-handed use.
	Twin tailed fall arrest systems.	Fatality and numerous serious injuries across industries. Twin tail lanyards can fail under some operating conditions.	Preference is to use two independent lanyards attached to rear 'D' attachment. No back-hooking of second lanyard to side 'D' shackle.
	Welders without functional voltage reduction devices (VRD).	Electrocution hazard.	It is preferable for all welding equipment to be fitted with a VRD device which lowers the open-circuit voltage (OCV) of the welding machine when it's not actively welding. This minimizes the risk of electric shock, particularly in hazardous environments or when working in confined spaces or damp conditions.





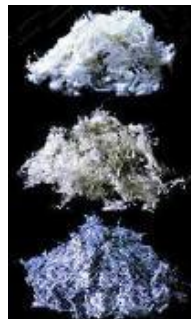


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Protecting the important stuff

Reference image	Description and location status	Status justification	Approved tooling or method
	Generators not fitted with a functional Residual Current Device unit (RCD).	Electrocution hazard.	Generators MUST be fitted with an RCD unit and earthing peg (beware of services when driving into ground).
	Oxy/acetylene systems not fitted with flash back arrestors.	Risk of flow of flame back into the hoses, regulator, and gas bottle.	All oxygen and acetylene gauges and hand controls MUST have flashback arrestors fitted on both ends of hoses.
	Fibre composite cutting discs greater than 125mm OD being used on grinders.	A significant number of injuries across industries	A comprehensive risk assessment MUST be completed before use with consideration of the requirement for additional PPE (glasses and face shield).
	Fibre composite cutting discs less than 1.6mm thickness.	A significant number of injuries due to discs shattering, experienced across industry.	It is preferable to use discs greater than 1.6mm thick but some applications may require 1mm discs. A comprehensive risk assessment MUST be completed before use with consideration of the requirement for additional PPE (glasses and face shield).

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	Out of date composite discs.	Can degrade over time and more prone to disintegrate on use.	Check the expiry date and condition of all composite grinding and cutting discs before use.
	Shortening clutches.	Risk of clutch being used upside down. If the chain carrying the load is not leading out the bottom of the clutch and placed through the top of the clutch, this can result in the front portion of the clutch being pulled off and the load being unintentionally released.	Only trained and competent people (NZQA 3789 rigging and slinging) can use shortening clutches. A better solution is a grab hook with safety catch. 
	Lifting equipment fitted with hooks that do not have safety latch.	Risk of dropping loads.	Must have safety latch fitted.  NB. Some cases of rigging around excavator bucket work may require hooks without safety latches.





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	Non-screw lock carabiner used in Working at Heights (WAH) assemblies and applications.	Latch can fail under some circumstances.	 All WAH connection points must have screw-lock carabiners.
	Lever action (over centre) load binder and cheater bars.	Several fatalities experienced across industries.	 Preferable to use a ratchet type turnbuckle binder.
	Asbestos materials, contained in any equipment or products.	Risk of asbestos related disease.	Be aware of tools and equipment made from heat or wear resistant materials and establish that they are non-hazardous.
	Temporary electrical power distribution boards for outdoor site use.	Electrical shock hazard.	 Use outdoor distribution devices.

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	Swing tailgates on trucks.	Risk of being hit by a swinging tailgate.	Best practice is to have two locking mechanisms and a dashboard alarm.
	Container doors that cannot be tied back when open.	Significant injuries have resulted from doors being blown open by wind gusts and striking workers.	When hiring ask if containers have door latches and if not apply additional controls to manage the risk.
	Waratah rammer (without finger protection).	The post driver can lift off the post during use and has resulted in significant hand and finger injuries.	 The "Cirtex" Waratah rammer is designed to protect the user from hand injury.

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Protecting the important stuff

Reference image	Description and location status	Status justification	Approved tooling or method
	Use of a sledgehammer as a post or waratah driver.	Many injuries across industry.	 The "Cirtex" Waratah rammer is designed to protect the user from hand injury.
	Torque wrenches/multipliers.	Fatalities and numerous serious injuries across industries.	Preference is to use tools with direct drive hex cassettes. Only use hydraulic or pneumatic torque multiplying tools with comprehensive Risk Assessment and application of controls.
	Flogging spanners which are also known as impact wrenches or slug wrenches.	Spanners can "fly" off when struck and have caused injuries in our industry and damage to surrounding equipment.	Finger savers:  Torque multipliers with lever arms:  These combine gearing mechanisms with lever action to safely increase torque.

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			<p>Ratchet lever tools provide controlled, incremental torque application. Useful in tight spaces or when consistent torque is needed.</p>  <p>Direct drive hex cassette torque wrenches</p>