

Operation/Activity: Use of Bench Grinders

Site / Location:

Persons at Risk (tick appropriate boxes)

Employee	<input checked="" type="checkbox"/>	Pregnant Women	<input type="checkbox"/>
Visitor	<input type="checkbox"/>	Disabled Persons	<input type="checkbox"/>
General Public	<input type="checkbox"/>	Lone Workers	<input type="checkbox"/>
Young Persons	<input type="checkbox"/>	Others	<input type="checkbox"/>

GUIDE TO RATINGS:

	RISK SEVERITY	RISK LIKELIHOOD	RISK RATING
1	Negligible	1	Unlikely
2	Minor	2	Possible
3	Significant	3	Quite Possible
4	Major	4	Likely
5	Catastrophic	5	Very Likely

			1 - 6 Low
			7 - 14 Medium
			15 - 25 High

Overall Risk Rating = Low

Describe the hazards associated with the activity/operation.

		Summary of Assessment Overleaf				
	Risk Rating (Before Controls)	Likelihood (L)	Severity (S)	Risk (L x S)	Risk Rating	
H1	Injury to person from the grinding wheel of the machine such as skin burns/abrasions and entanglement.	High	2	3	6	Low
H2	Poor maintenance of grinding disk would lead to increased vibration which over prolonged use could cause the development of a Work-Related Upper Limb Disorder such as carpal tunnel syndrome or vibration white finger.	Medium	2	2	4	Low
H3	Damage to eyes from sparks and debris produced from grinding.	High	2	3	6	Low
H4	Damage to hearing from prolonged use of grinder.	Medium	2	2	4	Low
H5	Electric shock from poorly maintained grinder or wiring.	High	1	4	4	Low

Assessed By:	Date:
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Monitored By:	Date:
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Hazard	Risk Control Measures	Residual Risk		
		Likelihood	Severity	Risk
General	No person will use this piece of machinery unless they are over the age of 18 years and have been trained and instructed in its operation and are authorised to use it or are undergoing training under the supervision of a competent person. Safety devices and guards must be maintained to ensure safe use of machine.			
	Anyone who replaces the abrasive wheels or trims and trues them must have completed an Abrasive Wheel training course.			
H1 Contact Injury	To avoid accidental starting, make sure that the switch is in the 'OFF' position before plugging in cable to the power supply.	2	3	6
	All guards must be in place prior to commencing works and must be in good working order.			
	Grinders will never be left unattended whilst still running. Do not leave the machine until it comes to a complete stop.			
	Grinders must be stopped, unplugged and allowed to cool before making adjustments or cleaning any part of the grinder.			
	Only competent persons will be permitted to adjust or service this machinery.			
	All operatives will ensure that they remove all jewellery and secure any long hair or loose clothing.			
	When fitting a new grinding wheel, always check that the stated maximum grinding wheel for damage such as flaws or cracks, then if the wheel appears satisfactory fit the new wheel to the grinder. Refer also to guidelines within the machinery manual.			
	Operatives must keep hands clear of the grinding wheel and never reach behind or beneath the grinding wheels.			
H2 Vibration	Wheels that are 25% or more worn must be replaced immediately.	2	2	4
	Operatives are required to ensure that any malfunction or operator hazard is reported immediately to their supervisor.			
	Both hands should be used to operate the tool. Use of a vice or clamps will assist in this process.			

	Comprehensive maintenance procedures are in place. The grinder will be cleaned on a weekly basis and a more thorough cleaning procedure will be performed on a monthly and yearly basis.			
H3 Flying Particles	Operatives must ensure that the machinery is free from any obstructions and that all keys and adjusting wrenches are removed before turning it on.	2	3	6
	Before commencing work the grinding disk must be securely fastened.			
	When a new grinding wheel has been fitted, stand to one side of the grinder and switch 'ON'. Let the grinder operate at full speed for approximately one minute so that any undetected flaws or cracks will become apparent.			
	Whilst using grinders, ensure that members of the public / visitors are kept well clear of the working area.			
	Operatives are required to always wear safety goggles when using the bench grinder. Operatives should endeavour to preserve the condition of their P.P.E. and regularly clean the equipment. Operatives should notify their supervisor if their P.P.E. requires immediate maintenance or becomes ineffective.			
H4 Noise	Ear defenders must be worn whilst using the bench grinder.	2	2	4
	Where ear defenders are identified to be faulty or ineffective maintenance will be carried out and replacements issued where required.			
H5 Electric Shock	To avoid risk of electric shock, do not use in damp or wet locations.	1	4	4
	Bench grinders are maintained and replaced on a regular basis. Operatives must not attempt to repair grinders; only competent persons will carry out repairs and maintenance.			

