

ACTIVITY	PERSON AT RISK	SIGNIFICANT HAZARDS	RISK*			RISK CONTROL MEASURES	RESIDUAL RISK**		
			P	S	DR		P	S	DR
Use of a bench grinder (abrasive wheel) general	Workshop staff and mechanics	Untrained staff using a bench grinder may lead to personal injuries	4	3	12	<ul style="list-style-type: none"> Only staff that have been trained to use a bench grinder. A notice to be supplied adjacent to the machine listing those members of staff who have been trained. Supervisors to monitor grinder use. 	3	2	6
Use of a bench grinder (abrasive wheel) general	As above	If the work rest is not close to the wheel, the work piece may be drawn into the wheel causing hand injuries	4	3	12	<ul style="list-style-type: none"> The work rest to be checked to ensure that it is as close to the wheel as is practical. Work rests to be securely tightened to prevent movement during use. Work rests to be adjusted as the wheel wears down. 	3	1	3
Use of a bench grinder (abrasive wheel) general	As above	Removal of the wheel guard during use may cause particles of metal to enter the eye	4	4	16	<ul style="list-style-type: none"> Wheel guards to be secured in position and properly adjusted before the wheel is run. Wheel guards to be inspected before the wheel is run. 	3	2	6
Use of a bench grinder (abrasive wheel) general	As above	Hazardous floor area around the grinder may lead to user falling against the wheel and sustaining injuries	3	4	12	<ul style="list-style-type: none"> Floor areas around a grinder to be kept clear of obstacles. Wet or greasy floors to be cleaned before using grinder. 	3	2	6

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Use of a bench grinder (abrasive wheel) general	As above	Use of a worn grinding wheel may cause it to run unevenly and to shatter causing injuries to user	3	3	9	<ul style="list-style-type: none"> Wheels to be inspected for wear before use. Only trained operatives to change or dress a worn wheel. 	3	1	3
Use of a bench grinder (abrasive wheel) general	As above	Grinding on the side area of a wheel may cause it to shatter causing injuries to the user	4	3	12	<ul style="list-style-type: none"> Under no circumstances should grinding take place using the side of the wheel. 	3	2	6
Use of a bench grinder (abrasive wheel) general	As above	Stopping wheels by applying pressure to them may cause work piece to be ejected and cause injuries	3	3	9	<ul style="list-style-type: none"> Wheels not to be stopped by applying pressure to them. Wheels to be allowed to run down and stop of their own accord. 	3	1	3
Use of a bench grinder (abrasive wheel) general	As above	Wheel spindles may overheat and cause the motor to catch fire	4	3	12	<ul style="list-style-type: none"> Spindle temperatures to be monitored during use. Spindles to be adequately lubricated to prevent them from seizing up. 	2	2	4

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Use of a bench grinder (abrasive wheel) general	As above	Use of an incorrect type of wheel may lead to it shattering causing injuries	4	4	16	<ul style="list-style-type: none"> Only wheels of the correct type to be fitted to the grinder. Wheel speeds to match that of the grinder motor. 	3	2	6
Use of a bench grinder (abrasive wheel) general	As above	Failure to wear the correct personal protective equipment (PPE) may lead to injuries	4	3	12	<ul style="list-style-type: none"> All users to wear eye protection. All users to wear respiratory protection when grinding creates a dust. User to ensure that clothing is worn so that there is no risk of entanglement. 	3	2	6

PROBABILITY (P) = Remote (0) – Unlikely (1) – Possible (2) - Probable (3) – Very Likely (4) – Certain (5)

SEVERITY (S) = No injury (0) – Minor Injury (1) – First-aid Injury (2) – 3 Day Injury (3) – Major Injury (4) – Fatality/Disability (5)

DEGREE OF RISK (DR) = PROBABILITY x SEVERITY

* Risk identified in the absence of any control measures in place.

** Residual risk is the level of risk that remains after suitable and sufficient risk control measures are introduced

Signature Sheet

Signed originator	Keith Ambrose	Job title	Director
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Document Control			
Version	Date	Comment	Person
1	01/02/2025	Original document drafted	Keith Ambrose
2			
3			
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Risk Assessment Matrix – Multiply the scores Probability (P) x Severity (S) to determine Degree of Risk (DR)

			Probability					
			(0)	(1)	(2)	(3)	(4)	(5)
			Remote	Unlikely	Possible	Probable	Very Likely	Certain
			Severity	No Injury	(0)	0	0	0
Minor Injury	(1)	0		1	2	3	4	5
First-Aid Injury	(2)	0		2	4	6	8	10
3 Day injury	(3)	0		3	6	9	12	15
Major injury	(4)	0		4	8	12	16	20
Fatality/Disability	(5)	0		5	10	15	20	25

Low	0 - 2	Monitor	Tolerable risk. No additional controls required. Employees made aware of safe/correct systems of work.
Medium	3- 9	Improvement	Action may be required to further reduce the risk to acceptable level. Periodic review of process or activity.
High	10 +	Immediate Action	Unacceptable risk. Stop activity immediately. Inform next level of management and refer to Safety Co-ordinator. Possible cessation/withdrawal of process or activity