

Risk assessment RA26 Pillar drill

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Faculty / Service Area	Faculty of Health Sciences and Sport	Location	Pathfoot B27
Description of work task / equipment /area being assessed			
Drilling on the pillar drill			
Change log	Version 1.1	29 Aug 2022	Expanded this section
	Version 1.2	11 July 2023	Referenced regulations and SOPs
Head of faculty	Prof Jayne Donaldson	Safety officer	Dr Nidia Rodriguez Sanchez
Completed by	Chris Grigson	Date	24 Jun 2020
Reviewed by	Dr Nidia Rodriguez Sanchez	Date	11 July 2023
	Chris Grigson	Date of next review	August 2024
Equipment used	Warco 2B12 Bench mounted pillar drill		
Categories of people involved	Staff, UG, PG, Visitors		
Duration of activity	< 1hrs	Frequency of activity	Daily
Legal compliance to standards and regulations required	<p>Health and Safety at Work act 1974 (HASAWA) https://www.hse.gov.uk/legislation/hswa.htm</p> <p>Management of Health and Safety at Work Regulations 1999 (MHSWR) https://www.legislation.gov.uk/ukxi/1999/3242/contents/made</p> <p>Provision of Work Equipment Regulations 1998 (PUWER) https://www.hse.gov.uk/work-equipment-machinery/puwer.htm</p>		

What are the hazards?	Hazard category	Who might be harmed and how?	What are you already doing to control the risks?	*Risk rating	What additional controls (if any) are required to reduce the risks?	*Risk rating	Action by who?	Action by when?	Date of completion
Exposed revolving parts	F4	Operator Cuts Drawing in	SOP with clear instruction to keep body parts away from cutting aperture Only trained operators allowed to use machine Regular inspection of machine and test of motor controls and interlock Operator instructed in proper use of chuck guard Pre use check Hair tied back No loose clothes	3					
Flying material	F4	Operator Eye injuries Cuts and lacerations	Goggles mandatory Appropriate clothing and shoes Operator instructed to secure workpiece and drill bit adequately	1					

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			Drill speed chart Chuck guard						
Sharp Swarf	F4	Operator Cut to hands	Cut resistant gloves and suitable footwear mandatory Operator instructed to use brushes to clean	1					
Mains electricity	F4	Operator Electric shock from exposed wires or earth fault.	Regular PAT testing Pre use visual inspection	1					
Harmful dust from machining operation	F4	Operator, others present Inhalation Skin contact Eye contact	Operator instructed to beware of drilling hazardous or unknown materials Operator instructed to use appropriate extraction if required with adequate filtration e.g HEPA filter	1					

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References and Further reading	HSE General Work Equipment- Frequently asked questions https://www.hse.gov.uk/work-equipment-machinery/faq-general.htm BSI, PD 5304:2019 – TC, Guidance on safe use of machinery								