

Risk Assessment - Bench Grinder #214

Risk Assessment performed on behalf of Leicester Hackspace Ltd 08833126

This risk assessment is intended to provide guidance on the risk associated with the above equipment and activities in normal use. Please also check general risk assessments for the space as a whole. Any discrepancies, errors or concerns should be raised with the document maintainers or the directors - do not edit this assessment directly. For responsible persons and last update, see below.

Activity

Use Bench Grinder



Created by	Signed	Date
G Loades		10/09/26
Reviewed By	Signed	Date
D Bazarovs		10/09/26
Director sign-off	Signed	Date
N Burley		10/09/26
Date released	Last reviewed	Next review
10/09/26	-	Sep 2027

#	Identify Hazards	Risks	Who may be harmed	Severity	Control Measures	Likelihood	Risk Rating
1	Electricity	Electric shock	User	High	All electrical equipment should be checked for electrical safety prior to use. Equipment must not be used unless they have a PAT test label on. It is the users responsibility to do a visual check of the equipment. If any defects are found (i.e. cracked casing, defect in lead etc) the equipment is not to be used, to be quarantined, safety officer informed, and a defect label attached. Induction covers inspection of equipment before usage	Low	Med
2	Misuse of equipment	Damage to user or equipment	User, Bystander	High	Members are inducted into the correct use of the equipment and understand associated risks. Members found to be deliberately misusing equipment may have their use of the machine restricted or revoked altogether.	Low	Med
3	Tool rest	Damage to user or equipment	User, Bystander	High	Prior to use the wheel is to be inspected for damage. The tool rest should be checked to see if it is tight and it is within 2mm of the grinding stone. Any larger gaps can lead to the work going between the rest and the wheel causing the wheel to stop suddenly this may damage the wheel and draw the users hand on to the wheel. No small pieces should be ground to prevent it going between the wheel and rest.	Med	Low
4	Incorrect material	Damage to user or equipment	Users, bystanders	High	Only ferrous metals should be ground on the grinder, if non ferrous metals are ground the wheel can become overloaded and may explode creating flying debris.	Med	Med
5	Overheating work	Risk of fire or burns	Users, bystanders	High	The work may overheat, causing burns or fire if dropped, due to the grinding effect on the metal. A suitable container with water should be positioned near the wheel to cool the work. A burn kit is available in the kitchen area.	Med	Med
6	Hot work	Risk of fire	Users, bystanders	High	It should be ensured that there is no combustible material in close proximity to the work. Suitable protection should be provided for any combustible items that cannot be moved and for combustible construction such as wooden worktops. A check should be carried out on all of the surrounding areas to minimise the possibility of ignition by heat transfer. Fire extinguishers are provided at the space. Hot work should be stopped a reasonable time before leaving the space. A thorough inspection of the area should be undertaken once the work is complete. Where necessary, a further check should be carried out before leaving the space.	Med	Med
7	Flying debris	Risk of injury	Users, bystanders	High	Members are competent to operate the grinder and will wear safety goggles provided when grinding. Where necessary, suitable screens must be positioned to protect others from flying debris. A first aid kit is available in the kitchen area.	Med	Med
8	Waste management	Risk of fire or burns, risk of injury from grindings	Users, bystanders	Med	Grinding debris will be segregated, where possible, by starting with a clear collection area and clearing away on completion. Any material to be disposed of must be cold (see risks 5 & 6 above) before being placed in a bin. Debris should be cleared as soon as possible after grinding is complete. Debris should only be cleared with a brush, never just hands.	Low	Low
9	Noise	Risk of hearing injury	Users, bystanders	Med	Members are provided with and should wear suitable hearing protection when using the grinder.	Low	Low
10	Vibration	Risk of injury	Users	Med	Users should minimise the time they are exposed to vibration, i.e. should take breaks during long jobs.	Low	Low