**Manchester Institute of Biotechnology - Risk Assessment**



| **Date:**  09/12/14 | **Assessed by**  Dave Charlesworth/Alan Kniveton | **Validated by**:  Tanya Aspinall | **Location**: MIB workshops | **Review date:**  2017 |
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| **Task**: The general operation and use of workshop grinder for normal operations on general materials within a workshop environment |
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| **Activity** | **Hazard** | **Person(s) in danger** | **Existing measures to control risk** | **Risk rating** | **Result** |
| General use of workshop grinder | Entrapment  Entanglement  Abrasions  Friction burns  Burning  Traps  Electrical | User and those in close proximity | Guarding: guarding is used to protect the operator from swarf, ejected components and moving parts of the grinder.  Maintenance: The equipment is operated on a breakdown maintenance scheme; no regular servicing is carried out. Only competent engineers are permitted to repair the equipment  Pre-use check by user to ensure the machine is in good working order with no obvious visual faults. Any defects are reported to the Workshop Manager.  Equipment controls: All equipment controls are clearly identified and all users are familiar with the operation of the machine.  The following items of PPE must be worn: Howie-style laboratory coat, and BS EN166 compliant eye protection (chemical splash proof safety glasses). A selection of safety glasses and goggles are available from MIB Stores; users are advised to visit Stores and select eye protection which fits well and is comfortable to use. Regular lab inspections monitor the wearing of PPE; users found not to be wearing PPE when the risk assessment states that it must be worn will be subject to the MIB compliance policy.  No loose clothing must be worn, and long hair must be secured to prevent entanglement in the machinery.  All users must be trained and competent to use the equipment.  Emergency stops control: a hand operated emergency stop (red mushroom button) is used on this equipment. This must be tested before use. If the emergency stop is found to be faulty, the machine must not be used until repairs have been completed.  During maintenance or repair activities, the equipment must be disconnected from the electrical supply.  The grinder is regularly PAT tested to ensure electrical safety.  A suitable sized water container must be available for cooling materials which have been used on the grinder. |  |  |

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| **Authorisation by Facility Manager**  **I confirm that I have considered and understand the hazards associated with use of this equipment. I am satisfied that all of the hazards have been identified and that the control measures to be followed will reduce the risks to acceptable levels.**  **Print name: Signed:**  **Date:** |

**Declaration by researcher**

**I confirm that I have read this Risk Assessment and that I understand the hazards and risks involved and will follow all of the safety procedures stated. Where PPE has been identified as a control measure, I will ensure that it is worn.**

**Declaration by Facility Manager**

**I confirm that the person who has signed below is competent to undertake the work. My counter-signature indicates that I am happy for the work to proceed.**

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| **Name (please print)** | **signed** | **PI countersignature** | **date** |
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