**General Risk Assessment Form**



| **Date:** (1) | **Assessed by:** (2) | **Checked / Validated\* by:** (3) | **Location:** (4) | **Assessment ref no** (5) | **Review date:** (6)  One year from issue or if significant changes |
| --- | --- | --- | --- | --- | --- |
| **Task / premises:** (7)  The use of 3D printers using a hot additive processes.  Text in red needs to be altered to suit your own process. | | | | | |

| **Activity** (8) | **Hazard** (9) | **Who might be harmed and how** (10) | **Existing measures to control risk** (11) | **Risk rating** (12) | **Result** (13) |
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| Printing | Hot Surfaces | User / Burns to hands | Training and supervision until fully competent  Display warning sign to warn of hot surfaces.  Avoid touching the printing nozzles and heated bed until cooled (a warning sign is displayed when too hot).If not the tongs must be used to extract product. Wear PPE; heat resistant gloves, safety glasses (BS EN 166) and lab coat | Low | A |
| Printing | Release of chemicals from process | User and others within room Severe health effects. | Refer to CRA Reference ####  Correct PPE must be worn at all times.  The 3D printer is enclosed with LEV  The printer is located in a natural ventilated area and no harmful filaments are to be used.  Once printer has finished a period of 20 minutes will be observed before opening the enclosure to allow dispersion of VOCs and Particulates. | State | X |
| Printing | Moving parts | User / entrapment | The printer is moving parts are enclosed.  Training and supervision until fully competent  Longer hair will be tied back.  Neck ties will be removed or fastened in place.  Do not wear baggy clothing which can get caught  Users and others will keep away from and will not touch any moving parts while it in operation.  Visually check equipment before use to ensure its integrity. | State | X |
| Printing | Electricity | User / Electric shock | Equipment is PAT tested annually. Visually check before use to make sure it is free from defects. If fault occurs stop use immediately. Make sure it is switched off and make safe after use | Low | A |
| Maintenance | Electricity | User / Electric Shock | Make sure that the equipment is switched off before carrying out any maintenance.  If maintenance is carried out on any parts which involve power then the equipment will need to be re PAT tested.  Maintenance /servicing carried out in accordance to manufacturers recommendation | Low | A |
| Storage | Degradation of material | User / poor product | The filament material must be stored in a dry and cool location. Must not be left in the open or in direct sunlight. | Low | A |
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| **Action plan** (14) | | | | |
| **Ref No** | **Further action required** | **Action by whom** | **Action by when** | **Done** |
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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.

| **Name (please print)** | **Signed** | **Line manager /PI countersignature** | **Date** |
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