

3D Printer Safety Guidelines

If you are working with 3D printer(s) on the RIT campus, please contact the RIT Environmental Health and Safety Department at 475-2040.

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| Administrative and Procedural Control Measures |
| Training | \_\_\_\_Lab Safety, Studio Safety, or Hazard Communication |
|  | \_\_\_\_Training specific to the 3D printer process(es) |
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| What needs to be reviewed? | \_\_\_\_Owner’s Manual for printing equipment |
|  | \_\_\_\_Safety Data Sheets of printing materials  |
|  | \_\_\_\_Review of materials, with EH&S, prior to purchasing and use (other than PLA or ABS) |
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| PPE | \_\_\_\_Respirator, if specified by EH&S |
|  | \_\_\_\_If corrosive bath is used as part of the process: lab coat/apron, chemical resistant gloves and safety goggles |
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| Lab Safety Precautions | \_\_\_\_No eating, drinking, applying cosmetics, chewing gum, or handling contact lenses |
|  | \_\_\_\_Wash hands thoroughly after printer use |
|  | \_\_\_\_Clean all work surfaces and flooring using a wet method (Do not use dry methods such as sweeping) |
|  | \_\_\_\_Do not congregate around the printer(s) for extended periods of time |
|  | \_\_\_\_Cover and label containers when transferring powders from one location to another |
|  | \_\_\_\_Use tongs when placing item in & removing item when a corrosive bath is involved  |
| Lab Space Considerations |
| \_\_\_\_Use printers only in designated lab environment(s) |
| \_\_\_\_Ventilation (6-12 Air Changes/ Hour) |
| \_\_\_\_Design room according to the number of printers housed within the lab |
| \_\_\_\_When feasible use fully enclosed, low particle emitting printer(s) |
| \_\_\_\_Exhaust ventilation for equipment used for mixing operations  |
| \_\_\_\_Eyewash if corrosive bath is part of the process |