

STANDARD OPERATING PROCEDURES: 3D PRINTERS

| | |
|--------------------------------------|---|
| PROCESS | Computer aided manufacturing process that builds three-dimensional models out of custom materials, typically plastics. |
| EQUIPMENT | Fused Filament Fabrication (FFF) Printers, Resin Printers |
| PERSONAL PROTECTIVE EQUIPMENT | <ul style="list-style-type: none"> • Safety Glasses • Gloves |
| REQUIRED TRAINING | <ul style="list-style-type: none"> • Review and Observe ICL safety practices and general guidelines • Lab supervisor led training specific to 3D printing process • Review manufacturers operating manual |
| INSPECTION BEFORE USE | <ul style="list-style-type: none"> • Ensure machine is on a level surface • Make sure mechanical parts are un-obstructed • Make sure ventilation is turned on and functioning correctly |
| HAZARDS | <ul style="list-style-type: none"> • Burns • Chemical Vapors • Electric Shock • Ultra Violet Light |
| SAFE OPERATING PROCEDURES | <ul style="list-style-type: none"> • Keep Hands away from heated extruder tip and build plate • Use only in a well-ventilated area • Make sure equipment is unplugged before performing any mechanical inspections or repairs • No eating or drinking around the equipment • Clean all work surfaces using a wet method • Avoid prolonged exposure to UV light • Use tongs when placing or removing items from corrosive bath • Wash hands thoroughly after use |