*Norwich Technical High School - Electronics Technology Date Updated:* 

*7 Mahan Drive*

*Norwich, CT 06360*

**TITLE: How to use 3d resin printer**

**APPROVALS:**

**Author: Brady and Abigal Date: 1/3/2024**

**Review: Date:**

1. **Revision History:**

| **NAME** | **REV** | **DATE** | **SUMMARY OF CHANGES** |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

1. **Purpose:**
   1. Because it is new to the shop and no one knows how to use it yet.
2. **Safety:**

**When using a resin printer, crack open the window near the printer and shut all blinds.**

**For Resin Printer**

* **Leave print out to dry when it is done**
* **Wear gloves when touching any part of the resin including adding resin or taking out resin of the resin printer.**
* **Put in a bin of isopropyl alcohol to dissolve any excess resin that shouldn’t be on the print.**
* **Use a toothbrush or wipes to clean off anything the isopropyl alcohol didn’t take off.**
* **Then do the same thing to the printing plate**
* **If there's extra resin pour back in through a filter to catch any lumps or clumps**

**For Curing Printer**

* **Use gloves when putting resin print into curing printer**
* **When it is ready to cure close everything**
* **Put the curing print into curing mode and turn the knob to set how long to cure.**
* **When it is beeping that show it is done curing.**

1. **Materials:**

* Resin filament
* Gloves
* Resin plate
* Isopropyl alcohol
* toothbrush/wet wipes
* 3d print metal spatula
* Resin printer
* Curing table
* Bucket to hold isopropyl alcohol
* Funnel to pour resin and collect clumps.

1. **Procedure:**

| **Step** | **Procedure** | **Picture** |
| --- | --- | --- |
|  | **Find what you want to print** |  |
|  | **Find the resin container** |  |
|  | **Find the resin it in the cabinets with all the other 3d print filaments** |  |
|  | **Pour the resin into the resin container** |  |
|  | **put the resin container into the resin printer and tightly secure it** |  |
|  | **pick the print you want to do and choose it** |  |
|  | **put the lid on the printer and start** |  |
|  | **when done dunk print with stand into cleaning container and let it mix for 10 minutes** |  |
|  | **clean of any other resin on print and put it into the curing print and cure for 10 minutes** |  |
|  | **Take off print and appreciate the print you made** |  |
|  | **Look at the resin manual if you are still confused it is in the cabinet beneath the resin printers** |  |