- remove and open the tank
- Place large parts directly in the tank, small parts may be put in the SS box and placed into the

Don gloves, face shield, and lab coat

Training Documentation

Overview:

- This training provides an introduction to the use of the printers, learning to maintain the printers, changing filaments, and other topics covered during the training.
- Two printers (Ultimaker and F270) are both set up with ABS by default, Other materials are available upon request.
- Work by extruding thermoplastic filament onto build platform-Build the part layer by layer.
- Remember to enter job information into the 3D print job log!

Safety

- The print heads can be very hot do not touch them with bare hands unless positive they are cool.
- As with any automated machinery make sure that your body is clear of the moving parts to avoid injury.
- The support removal tank for the F270 is filled with heated caustic chemicals that dissolve the support material. An apron, Gloves, and a face shield must be warn when inserting and removing parts or basket from tank.

Job Setup

- Load your file into the print software on the computer adjacent to the printer (Cura for Ultimaker, GrabCad Print for F270).
- Ultimaker: make sure print bed is clean
- F270 make sure that there is enough room on an unwed build tray for your part, and that the build tray is secured in the printer with the locking arm horizontal. Build trays may be used until the entire build area has been printed on, but printed areas can not be reused.
- Set print parameters (layer thickness, etc.) For the F270 the printer will print a raft before printing the model. Make sure first layer is set to support material or removal will be incredibly difficult.
- Record the material used and print time in the online log along with the other job information requested. The print log should be on the desktop or https://docs.google.com/forms/d/e/1FAIpQLScS3URUxoHOR62PdQeeSTAYg_suV061UsoFafrgoN0 qn6DWYg/viewform.
- Send the job to the printer from the computer
- Start the job at the printer

Part Removal and Cleaning Ultimaker

• Remove part from print bed using a spatula or razor being careful not to cut yourself or scratch the build plate. Make sure no body part is in line with the tool should it slip or the part break free unexpectedly.

F270

main basket.

- Carefully, slowly and without splashing lower the basket back into the tank and close the lid.
- Set timer for 6 hours setting the temperature to 80 degrees C.
- After cleaning time has elapsed follow the instructions above for opening and removing parts.
- Rinse part in warm water

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