

Orange:
**FORMAL
INDUCTION**

Form 2 3D Printer

ANU MakerSpace Safe Operating Procedure:

Low Risk Equipment - low risk of resin exposure.

PPE: Closed toe shoes, loose clothing and hair must be restrained. Gloves must be worn.

Pre-operational Checks

1. Ask for assistance if unsure when using the Preform software (<https://formlabs.com/tools/preform/>) for preparing your 3D models. Many issues with 3D printing begin with a poorly designed model or poor choice of printing parameters. Preform has a great wizard function to get you started.
2. In Preform, ensure that there are no red highlights on your model- this indicates areas where prints may fail.
3. Use gloves any time you are handling printer components or opening the printer cover. The resin is extremely sticky, easily transferred, and a mild skin irritant.
4. Only use proprietary Formlabs Photopolymer resin.
5. Never touch the under side of the resin tank. Damage or marking this area will affect print quality.
6. Check that the print bed, resin tank and resin cartridge are engaged before each print.
7. Check resin tank for debris by gently moving the wiper through the resin before each print.
8. If you notice damage or leakage to the resin tank or flasks alert a supervisor or mentor.

Operational Checks

9. Do not manually move the printhead or print bed using your hands.
10. Do not place fingers or tools inside the printer while parts are building. Opening the tank will slowly cure the remaining resin in the tank.

Post-operational Checks

11. ONLY remove prints on the black print tray in the fume cupboard. Use gloves. Drips into the printer can cause irreversible damage to the machine.
12. Use only the supplied tools (found in the fume cupboard) to finish your parts. Using only these tools reduces resin exposure to other MakerSpace users.
13. CAREFULLY detach the wiper and resin tank, cover the tank, and place back in box.
14. Thoroughly clean the build plate and tools immediately with isopropyl alcohol.
15. Discard any failed prints/support in the bins provided. Leave the print enclosure clean.