



**formlabs** 

# Form 2 Onsite Workshop

Hardware, Software, Applications & Maintenance



# Content Breakdown

## Module 1: Hardware and Interaction

- **Internal Mechanics:** Deep-Dive into the Form 2's optical path
- **Print Process:** Squish, Expose, Peel, Wipe: What forces are the models confronted with?

## Module 2: Workflow and Maintenance

- **Maintenance:** How to optimise the print environment, Printer and Resin Tank care
- **Form Wash, Form Cure** & removing supports
- **Post Processing:** Grinding, Polishing, Painting using different tools

## Module 3: Materials

- **Polymerisation:** Understanding how photosensitive Resin reacts
- **Mechanical Properties** of 3D-printed models: HDT, Notched IZOD, Young's Modulus: understanding data sheets
- **The Formlabs Material Library:** Durable, Rigid, Flexible, Tough.. which material is useful for what applications?

## Module 4: Software: PreForm & Dashboard

- Orienting and supporting models
  - **Orientation:** XYZ-Orientation, Base-Selection, Printing directly on the Platform
  - **Supports:** Density, Point Size, Base Thickness, Custom edit
  - Working with **islands** and **suction cups**
- **Dashboard:** Manage and track prints online

## Module 5: Advanced Troubleshooting\*

- **Printing Errors:** Rashing/Ragging, Volume Explosion, Non-Adherence
- **Troubleshooting:** Empty Cartridge, Bite Valve Error, Unknown Consumable, Cartridge or Resin Tank not detected, Motors Jammed, Printer Tilted etc.

## Module 6: Meshmixer\*

- Refine models and improve printability with the Autodesk Meshmixer software
  - **Hollowing models**
  - **Plane cuts, Join or split assemblies**
  - **Model Repair**

\*Available in the 2-day workshop





## Further Information

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|--------------------------|---|
| <b>Level:</b>            | Beginner to Intermediate  |
| <b>Location:</b>         | Formlabs or at your location                                    |
| <b>Duration:</b>         | 1 day or 2 days (9am-4pm)                                       |
| <b>#of Participants:</b> | max. 10 People  |
| <b>Requirements:</b>     | Computer with PreForm Software (free), Form 2 3D-Printer onsite |

## Contact

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