



**formlabs** 

# Form 2 Onsite Workshop

Hardware, Software, Applications and Maintenance



# Content Breakdown

## Module 1: Hardware and Interaction

- **Internal Mechanics:** Deep-Dive into the Form 2 printer's optical system
- **Print Process:** Squish, Expose, Peel, Wipe: What forces must the model handle during printing?

## Module 2: Workflow and Maintenance

- **Maintenance:** Optimising the print environment, Printer and Resin Tank care
- Finishing: **Form Wash, Form Cure** and how to remove supports
- **Post Processing:** Grinding, polishing, painting using different tools

## Module 3: Materials

- **Polymerisation:** Understanding the photopolymerisation reaction
- **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 suitable for which application?

## 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, Manual Editing
  - Working with **islands** and **suction cups**
- **Dashboard:** Manage and track prints online

## Module 5: Advanced Troubleshooting\*

- **Printing Issues:** 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**
  - **Mesh Repair**

\*Available in the 2-day workshop





## Further Information

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

## Contact

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