

# Tools and Documentation

## Tools That Require Training

### 3D Printers

| Tool   | Location | Training SOP                  |
|--|----------|-------------------------------|
| <a href="#">FormLabs Form3 SLA 3D Printer</a>              | 3430     | <a href="#">Form 2/3 SOP</a>  |
| <a href="#">Ultimaker3/S5 Extended Dual FDM 3D Printer</a> | 3430     | <a href="#">FDM Training</a>  |
| <a href="#">Stratasys F270 FDM 3D Printer</a>              | 3430     | <a href="#">FDM Training</a>  |
| <a href="#">Bambu Lab X1-Carbon FDM 3D Printer</a>         | 3430     | <a href="#">X1-Carbon SOP</a> |

### PDMS Processing

| Tool   | Location | Training SOP                                   |
|--|----------|--|
| <a href="#">Laurell WS-650M Spin Coater</a>    | 3430     | <a href="#">laurel_spin_coater.pdf</a>         |
| <a href="#">Thinky ARE-310 Mixer</a>           | 3430     | <a href="#">Thinky Mixer</a>                   |
| <a href="#">Harrick Plasma Cleaner PDC-32G</a> | 3430     | <a href="#">Plasma Cleaner SOP</a>             |
| <a href="#">Novascan Ozone Cleaner</a>         | 3430     | <a href="#">Ozone Cleaner SOP</a>              |
| <a href="#">Vapor Silanization Rig New</a>     | 3430     | <a href="#">Vapor Silanization Rig SOP New</a> |
| <a href="#">Vacuum Chamber</a>                 | 3430     | <a href="#">Vacuum Chamber SOP</a>             |

### Metalworking & Woodworking

| Tool   | Location | Training SOP   |
|--|----------|--|
| <a href="#">Bandsaw</a>                              | 2442     | <a href="#">Bandsaw Safe Operating Procedure</a>   |
| <a href="#">ShopBot Desktop CNC Router</a>           | 2442     | <a href="#">ShopBot Desktop Training SOP</a>   |
| <a href="#">Diamond Saw</a>                          | 3430     | <a href="#">Dimond TrimSaw 2 Training SOP</a>  |
| <a href="#">Flashcut / Sherline CNC Mill</a>         | 3430     | <a href="#">Sherline CNC Training SOP</a>  |
| <a href="#">WEN vertical Drill Press</a>             | 2442     | <a href="#">Cnsi Drill Press SOP</a>   |
| <a href="#">Delta 6" Bench Grinder</a>               | 2442     | <a href="#">CNSI Innovation Workshop Benchtop Grinder User Outline</a>                           |
| <a href="#">Grizzly bench Combo Disk/Belt Sander</a> | 2442     | <a href="#">CNSI Innovation Workshop Grizzly H8192 Combination Belt/Disk Sander User Outline</a> |
| <a href="#">Precision Matthews Milling Machine</a>   | 2442     | <a href="#">Manual Milling Machine Training SOP</a>  |
| <a href="#">Haas Super Mini Mill</a>                 | 3430     | <a href="#">Haas Super Mini Mill Training SOP</a>  |
| <a href="#">Festool Miter Saw</a>                    | 2442     | <a href="#">Miter Saw Training SOP</a>   |
| <a href="#">Precision Matthews Lathe</a>             | 2442     |  |

### Other

| Tool  | Location | Training SOP                                    |
|---|----------|---|
| <a href="#">Keyence VHX-5000 Microscope</a> | 3430     | <a href="#">Keyence Microscope Training SOP</a> |
| <a href="#">Trotec Speedy 100</a>           | 3430     | <a href="#">Laser cutting SOP</a>               |
| <a href="#">Wazer Waterjet Cutter</a>       | 2442     | <a href="#">Waterjet SOP</a>                    |
| <a href="#">CrystalMark Etching Tool</a>    | 3430     | <a href="#">CrystalMark SOP</a>                 |

| Tool                                 | Location | Training SOP |
|--------------------------------------|----------|--------------|
| <a href="#">Thunder Laser Cutter</a> | 3430     |              |

## Other Available Tools

### Microfluidics Tools

| Tool   | Location   |
|--|------------|
| <a href="#">Pressure Casting Chamber</a>               | in storage |
| <a href="#">36W 365 nm UV Exposure System</a>          | 3430       |
| <a href="#">New Era Single Syringe Pumps</a>           | 3430       |
| <a href="#">Harvard Apparatus Dual Syringe Pumps</a>   | 3430       |
| <a href="#">Electro-Technic BD-20AC Corona Treater</a> | 3430       |
| <a href="#">Pipette Cutter</a>                         | 3430       |
| <a href="#">Sonicator Bath</a>                         | 3430       |

### Heating Tools

| Tool  | Location    |
|---|-------------|
| <a href="#">Vacuum Oven</a>                     | 3430        |
| <a href="#">Thermoline 1315M Furnace</a>        | in storage  |
| <a href="#">Yamato DKN400 Convection Oven</a>   | 3430        |
| <a href="#">Lindberg Blue M Convection Oven</a> | 3430        |
| <a href="#">Thermoline/Lindberg Blue M Oven</a> | in storage  |
| <a href="#">Hot Press</a>                       | 3430        |
| <a href="#">Corning 6795-620D Hot Plate</a>     | 3430 & 2442 |
| <a href="#">Programmable Hot Plate</a>          | 3430        |

### Measurement and Inspection Tools

| Tool                                   | Location    |
|--|-------------|
| <a href="#">Electronic Scales</a>      | 3430 & 2442 |
| <a href="#">Height Gauge</a>           | 3430 & 2442 |
| <a href="#">Fisher Acumet pH Meter</a> | 3430        |
| <a href="#">Thermal Camera</a>         | 3430        |
| <a href="#">Canon Camera</a>           | 3430        |
| <a href="#">Nikon Camera</a>           | 3430        |
| <a href="#">Boroscope</a>              | 2442        |

### Metalworking and woodworking tools

| Tool                             | Location |
|----------------------------------|----------|
| <a href="#">Mini Drill Press</a> | 2442     |
| <a href="#">Jig Saw</a>          | 2442     |
| <a href="#">Arbor Press</a>      | 2442     |

## Electronics tools

| Tool   | Location |
|--|----------|
| <a href="#">Xytronic LF-853D soldering station</a> | 3430     |
| <a href="#">Digital Volt Meter</a>                 | 3430     |
| <a href="#">Oscilloscope</a>                       | 3430     |

## Post-Processing for 3D Prints

| Tool  | Location |
|---|----------|
| <a href="#">FormCure UV Curing Station</a>  | 3430     |
| <a href="#">Form Wash Cleaner</a>           | 3430     |
| <a href="#">SCA 1200 HT NaOH parts bath</a> | 3430     |

## Other

| Tool                                  | Location |
|---------------------------------------|----------|
| <a href="#">CriCut</a>                | 3430     |
| <a href="#">EinScan-SP 3D Scanner</a> | 3430     |
| <a href="#">Laminator</a>             | 3430     |
| <a href="#">Sewing Machine</a>        | 3430     |

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