

## **MAKERSPACE April 2024 Workshops**

*Most of our workshops last 1 hour and are by demonstration only except for sewing. Our workshops are limited to 10 people. NO EXPERIENCE necessary for our workshops*

*Signup for Our Workshops at... <https://iweb.lanqara.ca/makerspace/workshop-sign-up/>*

### **Laser Engrave & Cut Workshop**

**Friday April 5<sup>th</sup> - 10:30am to 11:30am or 2:00pm to 3:00pm**

Intro for our Trotec Speedy 300 laser. The Trotec can engrave and cut: wood, Plexiglas, cardboard, paper, ABS and leather. We start with how to create a file in Adobe Illustrator. We then go to the laser and show you how to engrave and cut wood.

### **3D Printers Intro - Tinkerine Ditto 3D Printer & Bambu X-1 Carbon**

**Friday April 12<sup>th</sup> - 10:30am to 11:30am or 2:00pm to 3:00pm**

We show you how to process your 3D file for the Ditto Pro 3D printers as well as our new Bambu X-1 Carbon 3D filament printers. We will go over best practices and tips when preparing your file. We then demo how to operate the 3D printers.

### **How To Sew on Our Industrial Sewing Machines**

**Friday April 19<sup>th</sup> - 10:30am to 11:30am or 2:00pm to 3:00pm**

We show you how to use our Techsew 0302 and Techsew 2750 industrial sewing machines. We will also demo our new Techsew Serger. Each sewing workshop is limited to 4 people as you will be hands on one of the machines.

## **Other Workshops**

### **Photon Studio Software for the Anycubic 3D Resin Printers**

Using Anycubic's Photon Studio, we will show you how to format your file and prepare it for our Anycubic resin printers. We will also demonstrate how to use the Anycubic printer and how to clean it.

### **Cura 3D Software for the Ultimaker S5**

We show you how to setup your 3d object in Cura to create a file ready for our Ultimaker S5 3d filament printer. We cover: the different filaments, how to create objects with dissolving supports, 2 colour printing and variable density printing.

### **CNC Wood Router Workshop**

We start with importing a file into Vcarve software and creating the tool paths. We then take the G-code file to the CNC and load it into the Mach3 router software. We then run the file on a piece of MDF wood.

### **Machining Workshop**

We will demonstrate what sort of objects and sizes can be machined on the NC10. We will then get into how to prepare your file to deliver to Makerspace. After Makerspace creates the final machining file, you will then oversee all of the machining on the NC10. We also will demonstrate what sort of objects and sizes can be machined on the PCNC440. We will then get into how to prepare your file to deliver to Makerspace. After Makerspace creates the final machining file, you will then oversee all of the machining on the Tormach PCNC440.

### **Box Making Workshop**

We start with how to create a file with a box making software. Then in Adobe Illustrator we load the file and prep it for the laser. We then go to the laser and show you how to cut the file. We then glue the parts together to create a finger joint box.

### **How To Make An Up-Cycled Tote Bag**

We will go through the steps of making a tote bag from the patterns available at the Makerspace. We will be using our **up-cycled billboard vinyl** for the tote.

### **Intro to Household Sewing Machine & Tech Sew Serger**

We will go over the basics of using a household sewing machine. We will also show you the different stitches and settings. We will also demonstrate the new 757 Techsew serger for finishing edges of fabrics. No experience is necessary.

### **Pattern Making / Design A Handbag**

We will design a handbag, make a pattern and then make a cardboard prototype. All the basic you will need to create your own handbag.

### **Make Your Own Back Pack – Demo Workshop**

Learn how to make your own back pack using upcycled materials. This is a demo only, and is suggested you have taken the sewing Workshop first, or know how to sew.