

**Student:** .....

**Trainer:** .....

**Date:** .....

**Version:** 0.1.0 - 2020-11-03

## Training Check-Off List:

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### Tool Anatomy

- Parts of the 3D Printer are properly identified
  - User Interface
  - Power Supply & On/Off
  - SD Card Slot
  - USB Port
  - Belts
  - Stepper Motors
  - Lead Screws
  - Hotend
  - Nozzle
  - Cooling fan
  - Heat sink fan
  - Filament Drive Gear
  - Print Bed
  - Filament

### Pre-Operation

- Load and Unload filament
  - Ensure correct type and amount of filament loaded
- Confirm that the nozzle and bed are clean
- Check if there is enough time to complete the print

### Models and Slicing

- Prepare a basic model for printing using Cura for LulzBot, and export the file for printing
  - Have you checked to see if your model is error free?
  - Did you start with default settings? If not why not?
  - Does your model have a flat surface to place on the platform?
  - Did you place your model flat on the platform?

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- Does your model need support material?
- If you need support, did you select Touching Build Plate or Everywhere?
- Do you want a raft, brim or skirt?
- Are you printing "all at once" or "one at a time"?
- Are you slicing for the right machine?
- Did you slice for the right nozzle diameter?
- Did you specify the layer height appropriately?
- Did you specify the wall thickness and line count?
- Did you specify an appropriate infill density?
- Did you name your G-code file to associate your model with you?

### **Operation**

- Upload a .stl file to a printer
- Start a print, pause a print, and stop a print
  - From Cura, built-in UI, and Octoprint
- Recognize irregular/incorrect operation
  - Pressing too hard
  - Model not adhering to bed (spaghetti monster)
- Quickly and safely halt operation and shut down the printer (in case of emergency)
  - From Cura, built-in UI, and Octoprint

### **Post-Operation**

- Safely remove a print from the print bed
- Report errors/needs for repair
- Proper filament storage
- Weighing and paying for CMS filament

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**Pass/Fail:** .....

**Comments:**

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.....  
.....

**Student Signature:** ..... **Date** .....

**Certifier Signature:** ..... **Date** .....



Certifier: Please scan this QR Code to email [info@claremontmakerspace.org](mailto:info@claremontmakerspace.org), and include a list of students who have passed this test. Then, return this form to the front desk (even if the student failed!).