



THE POSSIBLE ZONE



Glowforge

THIS GUIDE IS NOT A SUBSTITUTE FOR TRAINING OR FOR THE USER MANUAL. THIS GUIDE SERVES AS A REFRESHER ONLY. USERS MUST BE CERTIFIED TO USE EQUIPMENT INDEPENDENTLY.



Last Modified: April 29, 2024 3:38 PM

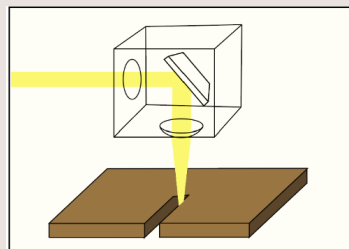


- 1. Button:** Starts glowforge jobs.
- 2. Laser Tube:** Generates a laser for laser cutting.
- 3. Laser Arm:** Moves the Print Head along the y axis (front and back).
- 4. Printer Head:** Has a mirror that directs laser down on material. Moves along an x axis (left and right) of the laser arm.
- 5. Crumb Tray:** Bed with holes that holds cutting material.
- 6. Lid Camera:** camera attached to lid that takes an image of the laser cutter

THIS TOOL IS PRIMARILY FOR:

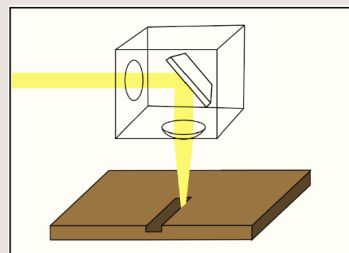
CUTTING

THE LASER MOVES SLOWLY ALONG A PATH, AT HIGH POWER, TO CUT ALL THE WAY THROUGH THE MATERIAL. SET FILE LINES TO RED TO CUT.



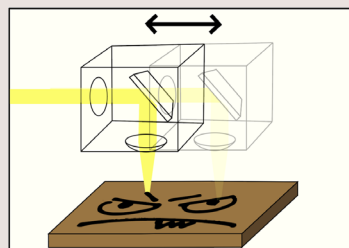
SCORE

THE LASER MOVES QUICKLY ALONG A PATH, AT LOWER POWER, TO DRAW A LINE. SET FILE LINES TO BLUE TO SCORE.



ENGRAVING

THE LASER MOVES QUICKLY BACK AND FORTH, TURNING ON AND OFF THOUSANDS OF TIMES PER SECOND, TO CREATE AN IMAGE ON THE SURFACE. SET FILE LINES AND IMAGES TO BLACK TO ENGRAVE.



MATERIALS

APPROVED

+ Proof grade Materials Only (QR Codes) from glowforge

BANNED MATERIALS

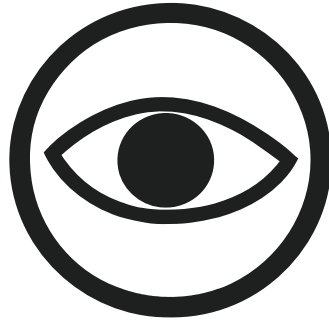
+ Non Proof grade Materials

+ Materials that can't be identified

+ PVC

+ Vinyl

+ Any material containing halogens (fluorine, chlorine, bromine, iodine and astatine), epoxy, mercury or phenolic resins



Do not leave the Glowforge unattended.

Keep an eye on your job. When jobs are running, stay within the glowforge boundaries.

If you must leave for an emergency pause job and notify staff.



Caution. Possible fire hazard. Do not use Non Proof grade Materials.

Only materials with QR codes (preset material settings) are allowed in the Glowforge. Guessing settings may result in a fire.

In case of fire, hit the emergency stop button, notify staff to use fire blanket and exit building if instructed to do so.



Always make sure the exhaust is on. Flip BOTH switches on the wall.

Smoke in the air is a sign that the exhaust is not on or clogged. If unsure ask staff.

EXHAUST

- Flip up both vent switches on the wall before running the glowforge.
- See Set Up Documentation QR.



NOT SURE IF EXHAUST AND AIR IS ON? ASK A STAFF MEMBER!

TURNING ON GLOWFORGE

- Ask staff to swipe in on Fabman bridge.
- Stay by glowforge when the machine is on.
- Hit the OFF switch in case of emergency.



KEEP HANDS AWAY FROM INSIDE OF MACHINE DURING START UP

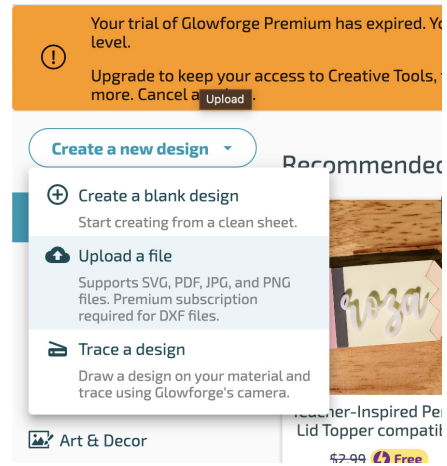
PUT MATERIAL IN AND SET UP FILE

- Open the Glowforge lid
- Place material into the Glowforge with the QR code facing up
- Close the lid.
- Have your file downloaded as an SVG with minify and responsive unchecked.
- Make sure Font is set to Covert To Outlines.



LOG IN

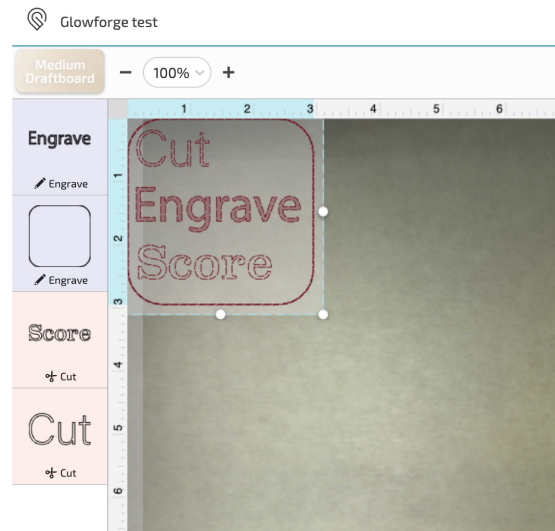
- Go to app.glowforge.com and log in with you TPZ credentials.
- Select the correct Glowforge you are using according to which design lab you are in.
- On the left, click Create New Design and then Upload a File and upload the file you want to cut



MATERIAL SETTINGS

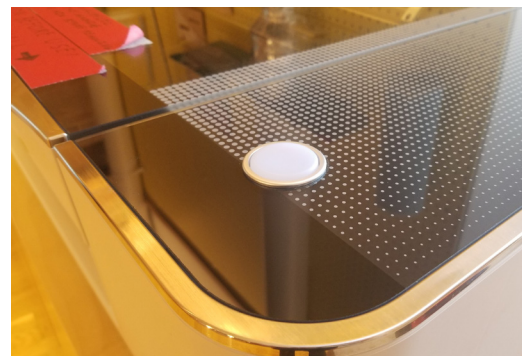
- Once the file is uploaded the glowforge will automatically select material settings from the QR codes
- Double check and select whether each object should be cut, engraved or scored.

**NO AUTO-DETECTED?
ASK STAFF. THE GLOWFORGE
MAY NEED TO BE CLEANED.**



PRINT

- Click Print
- Check how long the print will take.
- If you cannot be standing at the glowforge for that amount of time, Do Not Print and instead simplify the design, find another time to cut or make it on the Trotec instead.
- When vents are fully on push the button on the glowforge to start the job.
- Push the button again to pause.



DONT LEAVE JOB UNATTENDED



SET UP CONFIRMATION

USE THE FOLLOWING CHECK LIST TO INSURE THAT YOU HAVE SET UP THE MACHINE SAFELY AND PROPERLY.

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SELF CHECK

- A staff member is present in the room/space.
- The fire blanket is in reach.
- You know where the emergency stop button is.
- You are using approved material with a QR code.
- Both vents are turned on.
- Job time does not exceed available time on machine.
- Job time does not exceed time that you can physically stay by machine.
- There is nothing on top of the glowforge.

CLEAN UP

- All material is out of the machine.
- Both vents are turned off.
- Put any tools or supplies used for your project away.
- Make sure machine is turned off.
- End booking session by hitting stop [x] on Fabman bridge

This Machine Training Curriculum derives from the framework developed by Autodesk Pier 9 and posted on www.instructables.com/pier9/ Many thanks to the wonderful people of AutoDesk Pier 9.