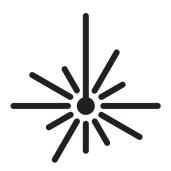


LASER CUTTING

Skill Tree: Color in the Boxes

Color in the boxes of anything you've already completed, visualize your skills and identify your skill gaps. Get inspired to try new things and tailor the skill tree to suit your own journey by swapping in your own goals.



(set your own goal) Optimize a repetitive job for speed Use a single-line font Aa Sell a laser cut project \$

(set your own goal)

Use a Galvo/ Fiber laser Cutter

Engrave metal

Nest parts for maximum material efficiency

Fit something to a

real-life object (use a

photo or scan)

Make

something

for a friend

Mod your laser

cutter (air assist, add

camera, change

firmware, etc)

O.,

Buy something

pre-made and laser

etch it

Make something

from multiple laser

cut parts 00

Learn what kind of

laser you are using

*

0

Use multiple passes to cut through a thick material



Optimize a design for engraving

Use a box generator and laser cut a box



Use a material test file to test a new material



Learn about the different types of laser cutters



Set up an exhaust or air filtration system



Make sure safety equipment is in place for using your laser ⇔ 1



Make a laser cut

Make a hard material bend with living hinges



Make a custom workholding solution or jig



Make something with a few different materials



Do a marquetry project



Engrave ceramic, tile or stone



Make a design using stacked materials

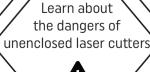


Find perfect cut settings for a new material



Prototype a project with cardboard

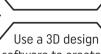




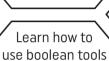


(set your own goal)

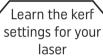
Teach a workshop on laser cutting



software to create a complex fitted part



effectively





Use a camera mounted to your laser to position your jobs



Find perfect image/photo engraving settings



Make an organizer with laser cutting



Cut something from timber



Customize a design using vector software



Learn your laser interface software

Use a rotary laser to engrave a curved object



Cut a nonstandard material (e.g. leather)



Make something from laser cut fabric / leather



Fix a laser cutter when something goes wrong



Solve a real-life problem with laser cutting



Use tabs to keep small pieces in a design in place



Make a stencil



Use an auto-trace function to turn pixels into vectors











(set your own goal)

Upload a design online

(set your own goal)



Create a complex

design from scratch

using vector software

Add paint or

F

Combine laser

cutting and 3D printing

in the same project

Add electronics

to a laser cutting

project

Make something

from upcycled

materials

23

Cut something

from acrylic

Get a design

wrong and try again

Make a

tool with laser cutting

Find a pre-made

file online to use

with your laser cutter

Use a 3D engraving technique (eg. depth map)



Combine laser cutting with hardware (bolts, hinges etc)



color to a project Convert something from one vector format



Teach a friend a laser cutting skill



Have an idea and make it in less than 1 hr



Reverse engineer something for a project



Make a simple design in vector software



Use cutting and engraving in the same project



Learn which materials are unsafe to cut



1 tile = 1 point

Total Score



START HERE

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Name: .