CNC & CAM

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.

ADVANCED

BASICS

(set your own goal)

(set your own goal)

(set your own goal)

(set your own goal)

(set your own goal)

Modify a post-processor

Use heatshrink tooling

Make a custom workholding jig

Teach a CNC class

Build your own CNC Machine

Machine an unknown material

Use a chamfer tool

Use a CNC Lathe

Cut a 3D contour

Use a fixture plate

Machine stainless steel

Teach a friend CNC skills

Repair a CNC after a crash

Engrave text

Use a boring tool

Fill an engraving with wax or resin

Make soft jaws

Machine a used part

Sell something you've made

Upgrade your CNC machine

Use a finishing cycle

Use a fly cutter

Accidentally misalign the second side of a job

Use a vice

Machine steel

Make multiple parts that fit together

Tram or align your CNC machine

Machine a pocket

Use a facemill

Hit a tight tolerance

Use work stops for multiple parts

Machine a composite

Make something as a gift

Check machine alignment

Use a keyless chuck

Clean down a CNC

Cut a 2D Contour

Add tabs to a part

Machine brass or copper

Make a part to repair something

Use multiple work offsets

Face off a part

Use a collet chuck

Use material that is too small

Use a vacuum table

Machine aluminum

Design and upload a project online

Use a digital probe to set origins

Use peck drilling

Use a ball mill

See "chatter" in your part

Manually edit a G-code file

Machine plastic

Make a mechanical part or tool

Use tool offsets

Generate your first G-code file

Use a drill bit

Break a tool

Fix stock with clamps or screws

Machine timber

Make a 3D art piece

Touch off material manually

Use a feeds & speeds calculator

Use an endmill

Use a CNC for the first time

Visit your local makerspace or woodworking club

Get safety gear and learn CNC safety

Understand the limits of your machine

1 tile = 1 point

START | **HERE**

Total Score

Name: _____

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