

NEW HOPE AND LIGHT e. V.

UNDERSTAND TECHNOLOGY. DISCOVER YOUR TALENTS.

Discover CNC

From idea to finished piece

Workshops for schools, teenagers and young adults



Illustration of our learning programme

How does a digital drawing become a wooden object? We bring together **design, computing and craftsmanship**. Participants develop their own ideas and discover how a CNC router turns them into finished pieces.

What participants learn

Create designs

Create digital sketches and lettering in Easel.

Plan accurately

Consider dimensions and material thickness.

Understand tools

Explore cutting tools and their effects.

Check simulations

Preview toolpaths on screen before machining.

Explore machining

Learn about reference points and safe working.

Improve results

Compare the design with the finished piece.

[Enquire about a CNC workshop](#)

Discovery day · School project · Club

Learning by doing

A manageable project. Your own decisions. A visible result.

How a finished piece takes shape

01

Explore & sketch

Examine sample pieces, ask questions and develop an idea of your own, such as a nameplate or a geometric pattern.

02

Design digitally & check

Create the design in Easel, define dimensions and simulate the machining process. The group checks and improves its design.

03

Make & evaluate

Experience CNC machining with expert guidance. Then check dimensions, surface finish and legibility, and present the results.

The learning behind the making

Young people learn to **measure carefully, think spatially and explain their decisions**. Team roles include design, measurement and documentation. Mistakes become opportunities to refine the design. Practical experience introduces technical, creative and craft-related career paths.

Flexible formats

Discovery days, project days or weeks, clubs and holiday programmes. Content adapted to age, experience and learning goals.

For beginners and curious minds

No prior experience is needed for introductory sessions. Several sessions allow more time for individual designs and practice.

Machine operation is guided by age, learning progress and safety requirements, with expert supervision. An introductory session focuses on a simple design and a guided machining demonstration.

Let's plan your CNC project day

Tell us the age range, group size, preferred dates and learning goals.

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Contact us