

Digital Manufacturing

Stamping and stickers with vinyl or laser cutting

Subtopic: Digital Manufacturing Technologies

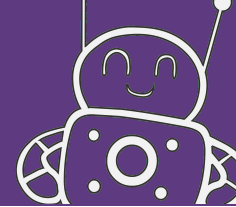
5 - 99 years

Duration: 90 minutes.

Number of participants: approx. 10 per monitor.

Approximate cost:





Goal

Participants will print a tote bag or t-shirt with the help of stencils created with the vinyl cutting machine or laser cutter. They will learn how one of these two machines works in general and what possibilities they open up for creativity.

Contents

1 Introduction to a digital manufacturing laboratory or FAB LAB, what machines and technologies does it offer to prototype ideas or develop projects?.

2 Laser cut or vinyl cut. This is where this workshop has two variations.

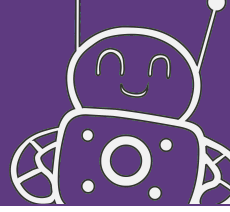
- Cut with vinyl: If it is done with the vinyl cutting machine, the participants are taught how the machine works, some designs are cut and they are taught to use them either as stickers or in the case of the negative that remains after removing the positive, how to use it as a stencil to stamp on fabric.
- Laser Cutting: If a laser cutter is available, participants are taught how a laser beam works and how cutting works on the machine. As an example of the possibilities that the machine has, some stencil designs are cut in acetate that will later be used to stamp the fabric.

3 Examples of other projects and ideas that can be realized with these technologies can be shown.

Materials

Vinyl stickers and stencils option:

- Vinyl cutting machine
- Color vinyl
- Inkscape or some vector design software
- Vinyl cutting machine software (ex. Roland Cut Studio)
- Cloth totebags or t-shirts
- Textile paint
- Small rollers
- Plastic to protect the tables where the stamping will be done.
- Plastic plates or acetate sheets to spread the paint with the rollers
- Hair dryer (optional, to dry quickly)
- Eyebrow tweezers (optional, useful for removing vinyl segments)



Option laser cut acetate stencils:

- Laser cutting machine
- Clear acetate sheets (like the kind used in old projectors)
- Inkscape or some vector design software
- Cloth totebags or t-shirts
- Textile paint
- Small rollers
- Plastic to protect the tables where the stamping will be done.
- Plastic plates or acetate sheets to spread the paint with the rollers
- Hair dryer (optional, to dry quickly)

Cut files

<https://drive.google.com/open?id=1HjwiwfwPDcDQOJ-Itae3khwz9i1pvF-W>