

## ACEO® Open Print Lab – Program

### Classroom Trainings Theory

#### Additive Manufacturing

Welcome to a new world

- ▶ Technologies
- ▶ Markets
- ▶ Applications

#### Silicone Elastomers

A chemical introduction for beginners

- ▶ Chemical principles
- ▶ Properties
- ▶ Applications

#### Freedom of Design

Explore novel territories with integration of functionalities and lattice structures

- ▶ Step 1: Integration of functionalities
- ▶ Step 2: How to design lattices and inner structures
- ▶ Step 3: Metamaterials

#### 3D Printing in Healthcare

Discover material properties and suitable applications

- ▶ Introduction to 3D Printing in Healthcare
- ▶ Case 1: Biomodeling – from medical imaging to 3D printed parts
- ▶ Case 2: Individualization
- ▶ Material properties

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### Printing Trainings Hands-On

#### Designs

We provide a selection of different designs for our printing seminars. However, we encourage you to bring along your own part designs. We believe that the learning effect will be much higher when discussing your applications.

#### Shipment

The 3D printed silicone parts will be shipped to you after your session. As part of our standardized processes, all parts need to be washed and post-cured.

#### Get Started

A basic introduction to understand the principles of the technology

- ▶ Learn fundamentals of part design
- ▶ Print first simple parts and move on to real 3D parts with support material
- ▶ Compare different printing strategies

#### Advanced Design Thinking

Align technology, process and design for optimal results

- ▶ Compare and evaluate different printing strategies
- ▶ Adapt your design directly and re-print it
- ▶ Integrate functionalities or lattices with support by our experts

#### Feel the Difference

Compare different silicone grades and combine them with designs

- ▶ Test print different durometers or colors
- ▶ Get advice on special material development by our material experts
- ▶ Experience novel effects with 3D+: Integration of material, technology and design

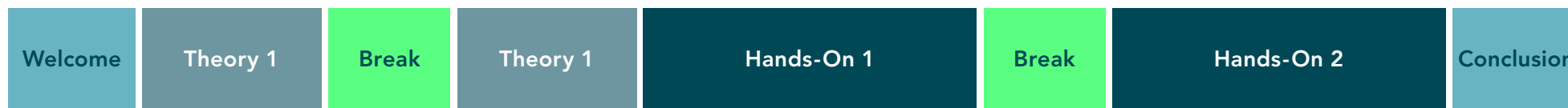
#### Imagine

Your design – our technology & guidance – your part

- ▶ Get a short introduction among experts
- ▶ Print whatever you have in mind with our support

## ACEO® Open Print Lab – Timeline

### Schedule (exemplary)



09:00 am

04:00 pm



09:00 am

04:00 pm