



# Professional Additive Manufacturing (AM) Training 2022

Organized by Etteplan and 3DFormtech

# Typical challenges with Additive Manufacturing in organizations

## Knowhow & Awareness

- Technology develops fast, hard to keep up
- Lack of wide competences
- Finding the right applications for AM
- No design capabilities
- Knowhow of material properties

## Top management commitment

- AM not specified in technology roadmaps
- No dedicated funding for AM
- Technology not seen as business enabler
- Unseen risks and conservatism
- Need for a business case to justify the funding**

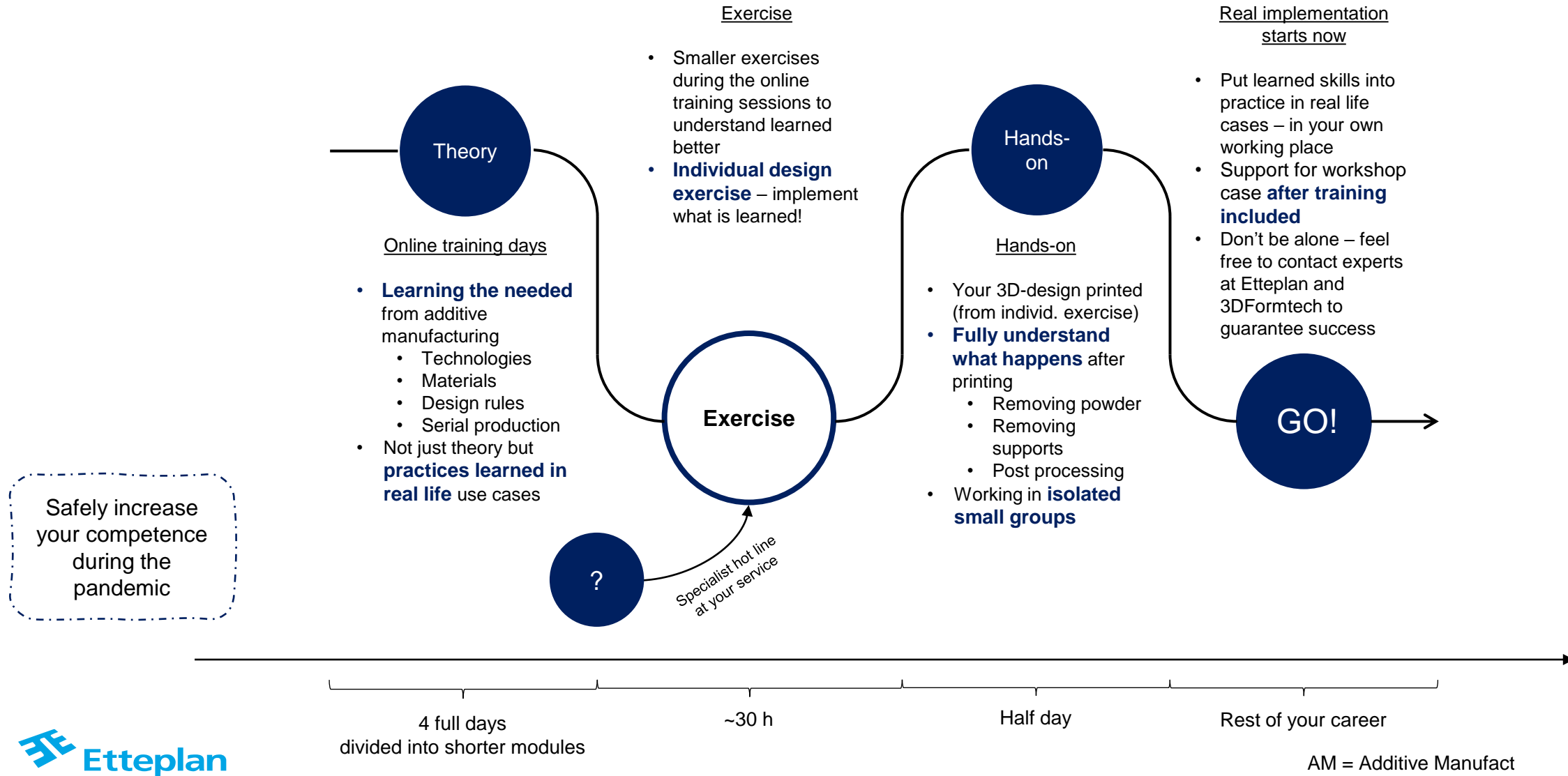
## Technology limitations / bottlenecks

- Demand for cost efficiency
- Lack of competences, tools, and workflow
- Relatively slow build rates
- Limited component size
- Manufacturing process

Things that can be affected through PRO AM TRAINING

# Professional AM Training (Online) –learn from the best

A path to implementing additive manufacturing in your work, paved with proven best practices



# Training contents

Each module ~4h

## Participative training method

- Theory
- Exercises
- Polls
- Groupworks
- Brainstorming
- Q&A

## Module 1

Inspiration

Current state and future of 3D printing

Taking the most of 3D printing

Recommended also for managers

## Module 2

AM technologies for plastics

Applications for 3D printed plastic components

How to spot suitable applications for AM

## Module 3

AM technologies for metals

Applications for 3D printed metal components

Health, safety and environment aspects

## Module 4

How to design for AM

Design exercises

## Module 5

Simulation based design

Advanced 3D-modeling

Design process

Design software

## Module 6

Hands-on day  
(metal and plastic)

## Module 7

Market and trends for AM

How to implement AM into your organization

Recommended also for managers

## Module 8

Cost of 3D printing

Value chain in 3D printing

Make or buy - decisions

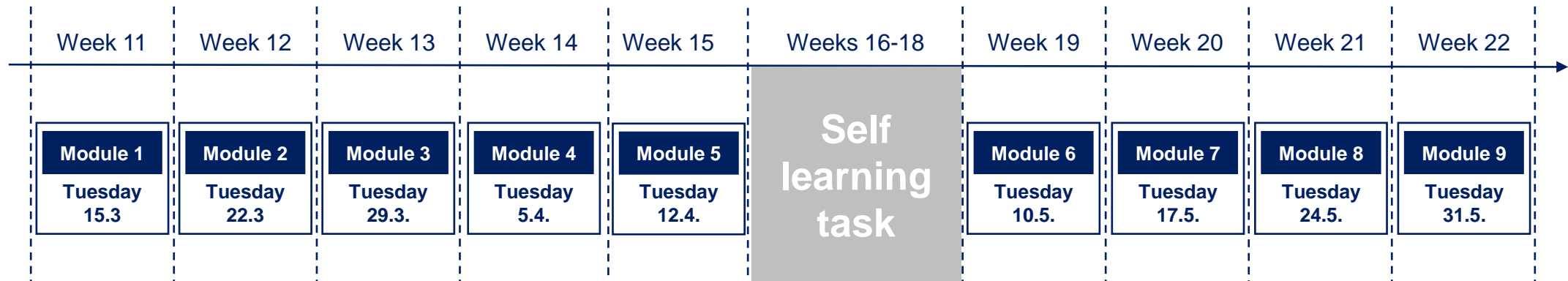
## Module 9

Workshop: Bring your own component!

Closure and feedback for the training

Self-learning exercise  
+ specialist hotline

# Schedule





# Commercial terms

## Engineer training– Theory and exercises

- **Price per person: 2450€ (VAT 0)**
  - Total of 9 modules + self learning exercise
  - Location
    - Online - platform TBD
    - Hands-on day - 3DFormtech, Jyväskylä
  - Training language: English and Finnish

## Manager training

- **Price per person: 500€ (VAT 0)**
  - Total of 3 modules (1, 7 & 8)
  - Location: Online, platform TBD
  - Training language: English and Finnish

Read more about Etteplan's AM actions

- <https://www.etteplan.com/digitalization/additive-manufacturing>

Read more about 3DFormtech

- [www.3DFormtech.com](http://www.3DFormtech.com)

## Terms

- 14 days net
- Invoicing
  - 50 % after 1st training day
  - 50 % after last training day

Each participant will receive 3D printed parts from plastic and metal as well as 3D printing handbook