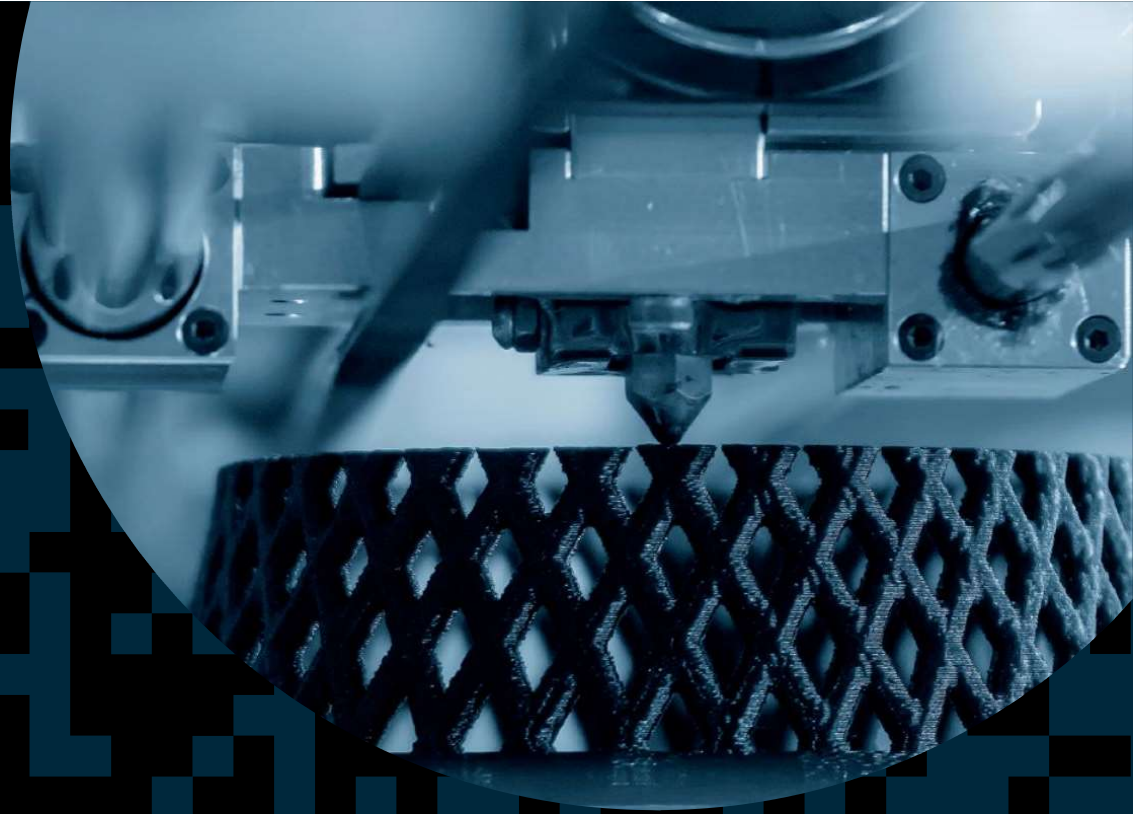


THOMAS
MORE

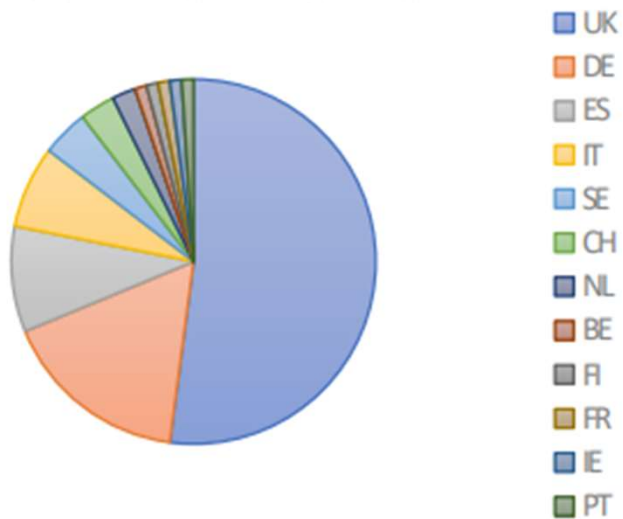
Workshop Skills

RECAP

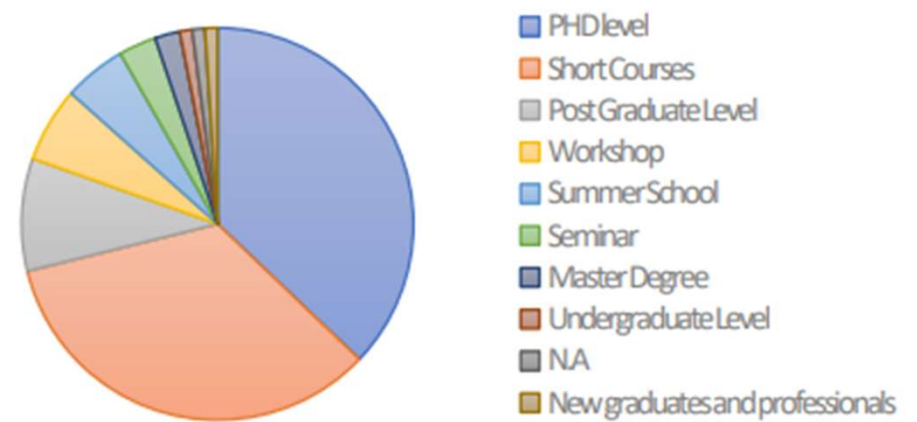


Skills 4 AM

EU Countries with Courses in AM



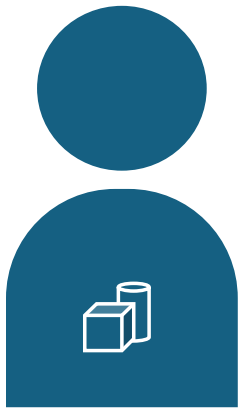
Types of AM Programmes



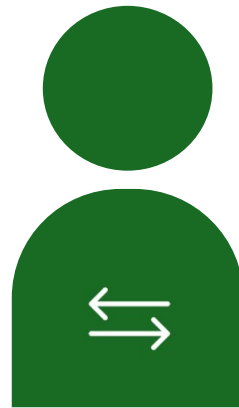
Skills 4 AM

Hard Skills	Technical	AM Processes Design Materials Post-Processing Testing/Quality Safety
	Entrepreneurship	Creativity Vision Spotting Opportunities Ethical and sustainable thinking
Soft Skills	Green	Resource efficiency management Green awareness LCA (Life Cycle Analysis) Circular economy
	Digital	Machine learning Internet of Things Cybersecurity

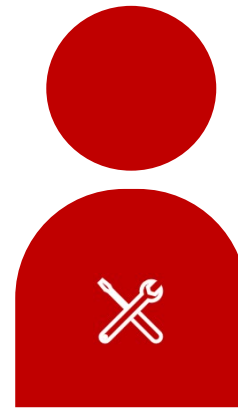
Profiles



**AM Design
Engineer**



**AM Process
Engineer**

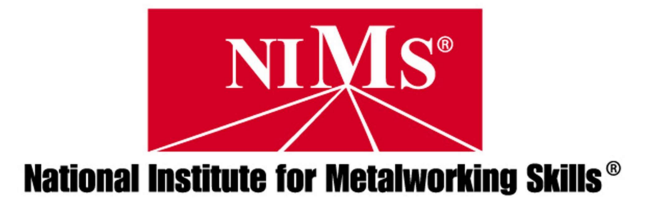
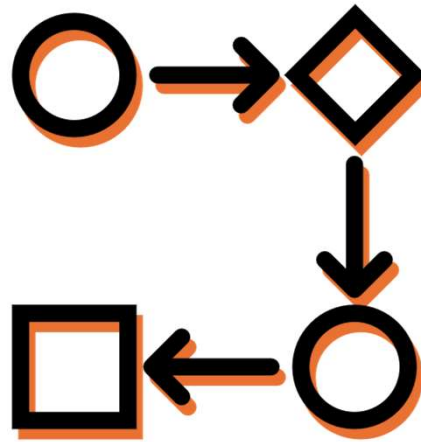


**AM
Technician**



**AM Sales
Engineer**

Certification



START
 SOMEONE THAT
 DOESN'T KNOW
 HOW TO 3D-PRINT

GOAL
 SOMEONE THAT
 DOES KNOW
 HOW TO 3D-PRINT

WHAT?

**GAIN MOTIVATION
 TO LEARN 3D
 PRINTING**

**LEARNING 3D
 MODELING**

**KNOWLEDGE
 ABOUT AM**

**KNOWLEDGE
 ABOUT DESIGN
 FOR AM**

**KNOWLEDGE
 ABOUT MATERIALS**

**KNOWLEDGE
 ABOUT SLICING &
 PRINTER SETTINGS**

3D PRINTING

**KNOWLEDGE
 ABOUT POST-
 PROCESSING 3D
 PRINTS**

**APPLY 3D PRINTING
 SKILLS IN
 BUSINESS**

SOFT SKILLS

**CHOICE OF
 3D MODELING
 SOFTWARE**

**THEORY:
 KNOWLEDGE
 ABOUT DIFFERENT
 TYPES OF AM**

**THEORY: DESIGN
 GUIDELINES FOR
 SELECTED AM**

**THEORY:
 KNOWLEDGE ABOUT
 TYPES OF MATERIALS
 BASED ON SELECTED
 AM**

**THEORY: SLICING
 AND PRINTER
 SETTINGS**

**THEORY: LEARN TO PRINT A
 SLICED MODEL: WHAT TO PAY
 ATTENTION TO WHILE PRINTING,
 HOW DO YOU KNOW IF THE PRINT
 IS GOING WELL, REPLACING
 FILAMENT, HOW TO REMOVE THE
 PRINT...**

**KNOWLEDGE ABOUT
 TYPES OF POST-
 PROCESSING FOR
 SPECIFIC AM TYPE**

GREEN THINKING

**THEORY:
 LEARNING 3D
 MODELING**

**CHOICE OF AM
 TYPES**

**APPLYING DESIGN
 GUIDELINES TO 3D
 MODELS**

**CHOICE OF
 MATERIAL TYPES
 AM**

**PRACTICE: SLICING
 AND PRINTER
 SETTINGS**

**PRACTICE: LEARN TO PRINT A
 SLICED MODEL: WHAT TO PAY
 ATTENTION TO WHILE PRINTING,
 HOW DO YOU KNOW IF THE PRINT
 IS GOING WELL, REPLACING
 FILAMENT, HOW TO REMOVE THE
 PRINT...**

**LEARN TO POST-
 PROCESS THE
 MODEL**

**ENTRE-
 PRENEURIAL
 SKILLS**



CENTRAL IDEA THAT UNDERPINS THE INNOVATION

ACTIVITIES / PROVISION

PRODUCTS AND SERVICES offered to a customer or user, in physical or virtual form

PROGRAMMES - sets of activities or measures with a long-term aim



WAYS OF WORKING

PRINCIPLES, VALUES, PROCESSES OR GUIDELINES that can be applied in different contexts

ROLES - tacit knowledge, mindsets, skills residing in people



ORGANISATIONAL MODELS

STRUCTURES AND RELATIONSHIPS that enable an organisation to work in a specific way that makes the innovation successful



Pilot 1 (key words)

CENTRAL IDEA THAT UNDERPINS THE INNOVATION

ACTIVITIES / PROVISION	WAYS OF WORKING	ORGANISATIONAL MODELS
<p>PRODUCTS AND SERVICES offered to a customer or user, in physical or virtual form</p> <p>PROGRAMMES - sets of activities or measures with a long-term aim</p>	<p>PRINCIPLES, VALUES, PROCESSES OR GUIDELINES that can be applied in different contexts</p> <p>ROLES - tacit knowledge, mindsets, skills residing in people</p>	<p>STRUCTURES AND RELATIONSHIPS that enable an organisation to work in a specific way that makes the innovation successful</p>

<p>Workshop c-level about business case 3D-printing:</p> <ul style="list-style-type: none"> -> Sustainability -> Price -> advantages -> Business value -> Strategy -> Philosophy 	<ul style="list-style-type: none"> • Discussion around the t share experiences at the C-level. • Exploring the Business Canvas from technicians directors. • Demonstrator tour feat examples from other comp -> Technicians/operator your bosses along.
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Pilot 1 (interpretation of the key words)

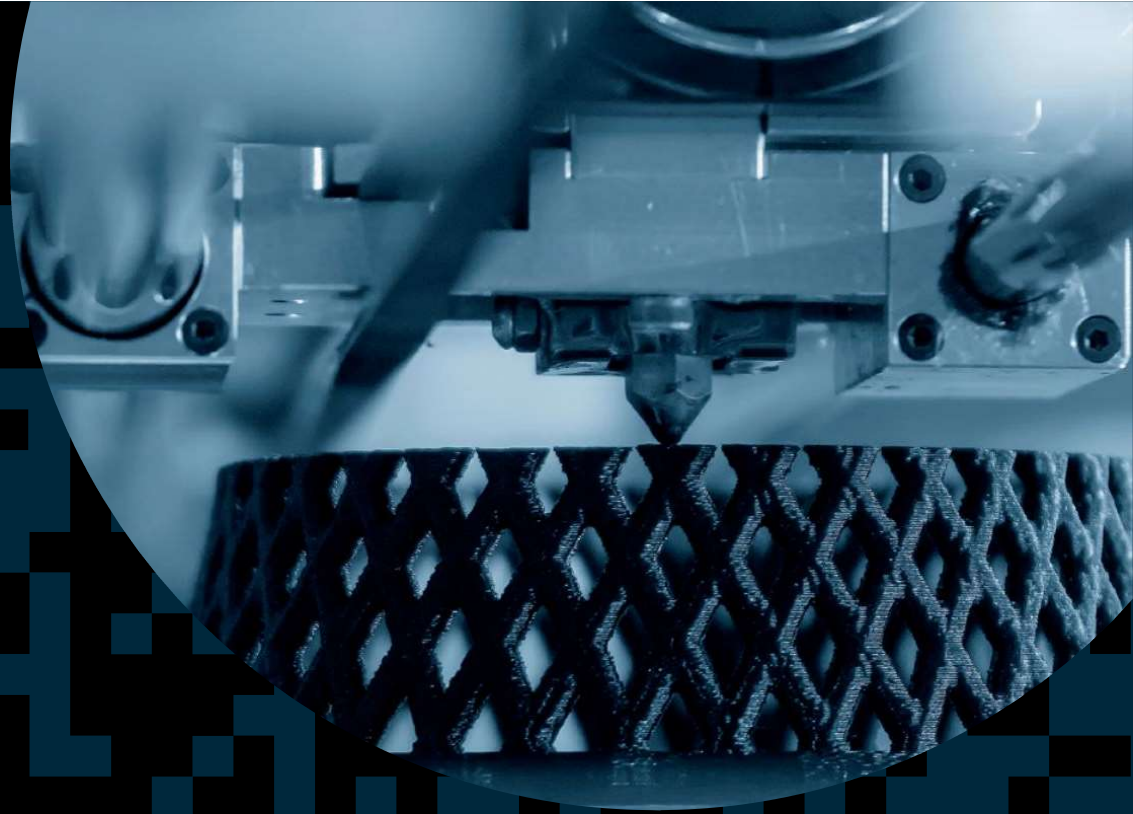
CENTRAL IDEA THAT UNDERPINS THE INNOVATION

ACTIVITIES / PROVISION	WAYS OF WORKING	ORGANISATIONAL MODELS
<p>PRODUCTS AND SERVICES offered to a customer or user, in physical or virtual form</p> <p>PROGRAMMES - sets of activities or measures with a long-term aim</p>	<p>PRINCIPLES, VALUES, PROCESSES OR GUIDELINES that can be applied in different contexts</p> <p>ROLES - tacit knowledge, mindsets, skills residing in people</p>	<p>STRUCTURES AND RELATIONSHIPS that enable an organisation to work in a specific way that makes the innovation successful</p>
<p>Conducting workshops for C-level executives to educate them about the business case for 3D printing. This includes discussions on sustainability, pricing, advantages, business value, strategy, and philosophy associated with 3D printing.</p>	<ul style="list-style-type: none"> • Facilitating discussions among C-level executives to share their experiences and insights regarding 3D printing. • Utilizing the Business Model Canvas as a tool to explore and understand the potential business models related to 3D printing, involving participation from technicians to directors. • Arranging demonstrator tours showcasing examples of successful 3D printing implementations in other companies, with a specific invitation for technicians/operators to bring their supervisors along. This aims to provide tangible examples and foster buy-in from decision-makers. 	<p>Integrating an annual innovation dinner into the 3D printing training program, focusing on sustainability and business model discussions. This component aims to facilitate deeper conversations and engagement among participants regarding the strategic implications of integrating 3D printing into the company's operations.</p>

THOMAS
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TM/AM

Sustain3D pilot



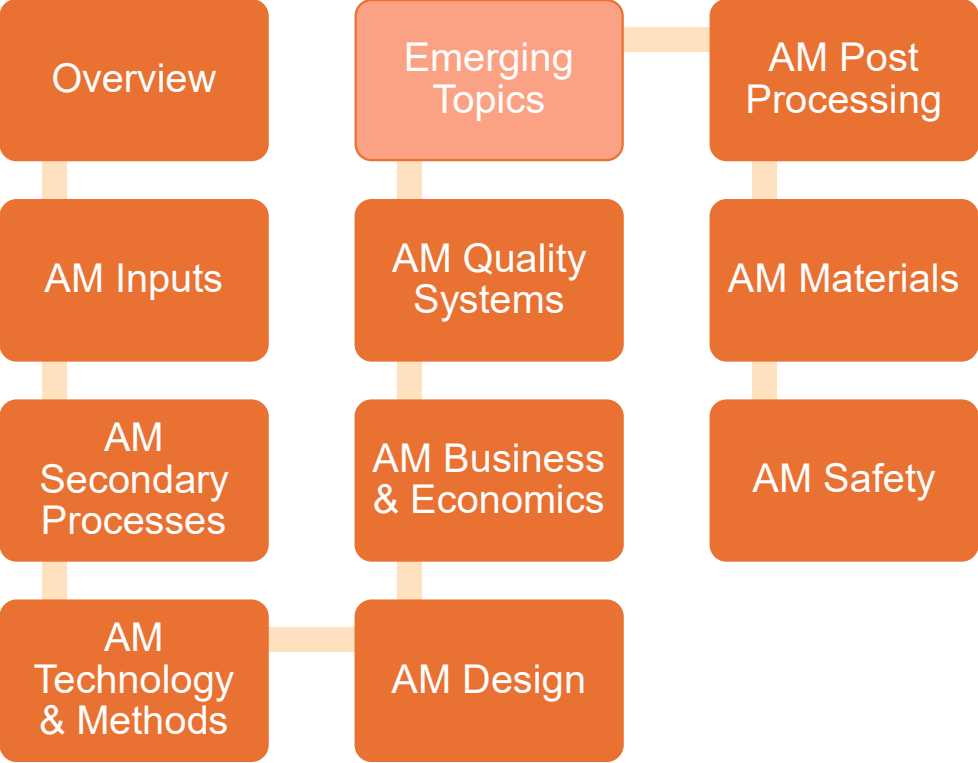
Structure

TM/AM Fundamentals (4d)

TM/AM Expert (2d)

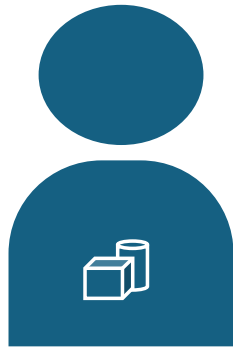
- TM/AM Design Engineer
- TM/AM Process Engineer
- TM/AM Technician
- TM/AM Sales Engineer

TM/AM Fundamentals



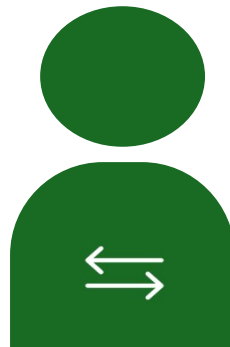
Additive Manufacturing Body of Knowledge

TM/AM Expert



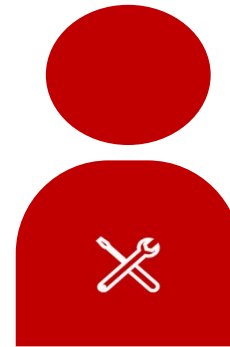
AM Design Engineer

- Inputs
- DFAM



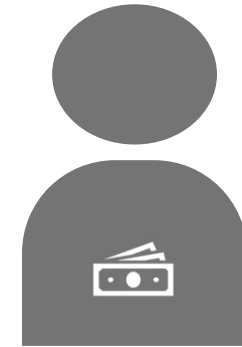
AM Process Engineer

- Methods
- Technologies
- Materials



AM Technician

- Safety
- Post-processing



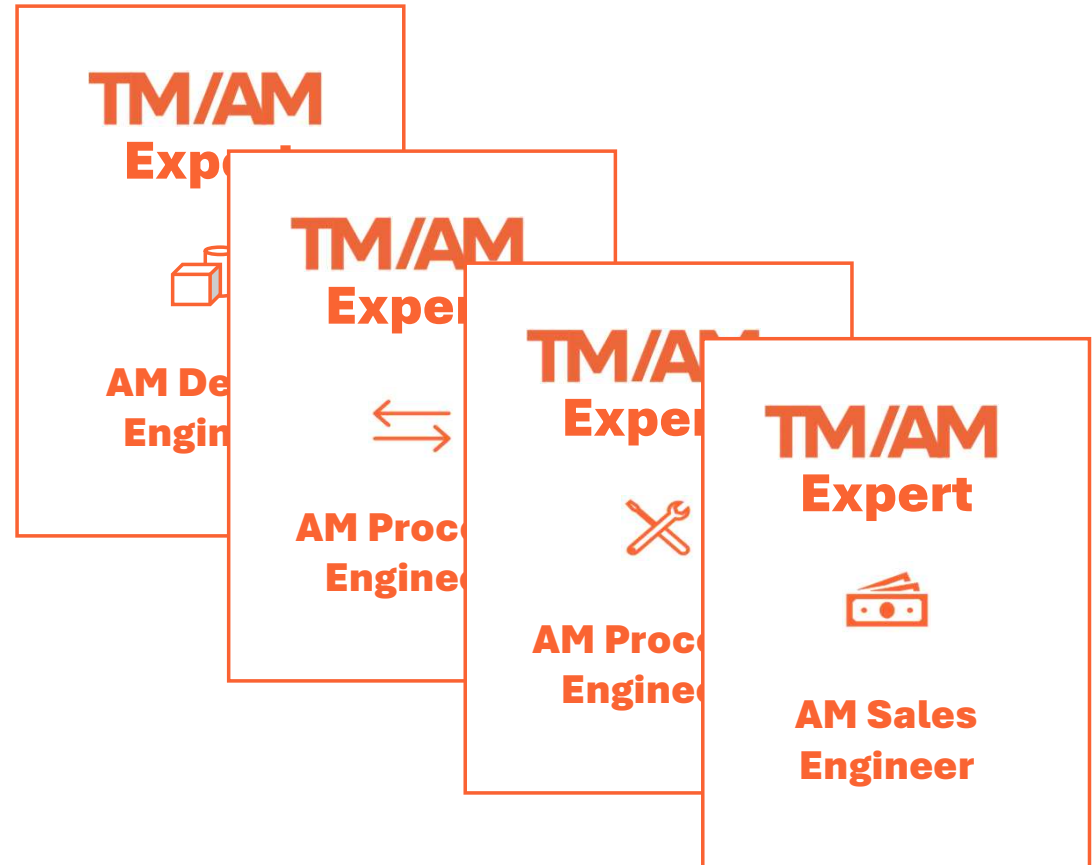
AM Sales Engineer

- AM in business
- Emerging topics



Using methods of the workshop Skills

Certificates



THOMAS
MORE

AM Training for Sheltered Workshops

Sustain3D pilot

