

# Become a Binder Jetting Expert

## VX User and Maintenance Training

Stefan Kloß  
voxeljet Academy

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## ✓ VOXELJET ACADEMY

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## ✓ VOXELJET ACADEMY

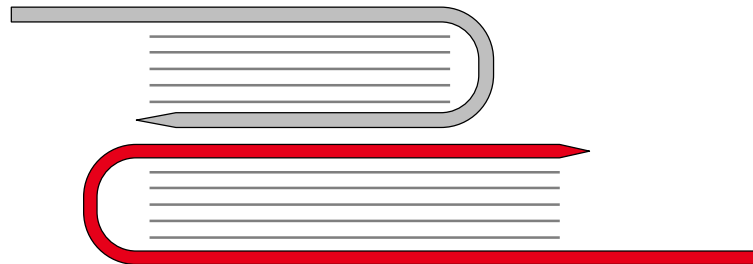
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## INTRODUCTION

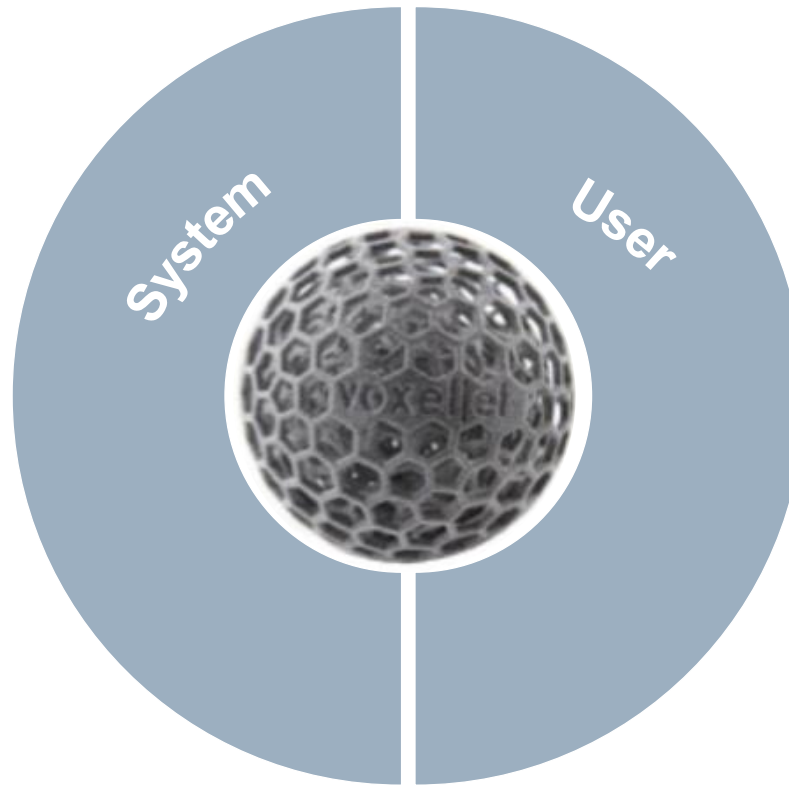


As a leading manufacturer of industrial 3D printing systems, voxeljet has a unique level of technological expertise. We are happy to pass this knowledge onto our customers around the world. This competence provides our customers a key advantage when working with their 3D printing systems, printed molds and models.

Here at voxeljet, we understand that engineers and machine operators play a crucial role. This is why we share our knowledge using the latest training methods, based on theoretical and practical experience. With the voxeljet training program, you will gain the expertise required to reach your goals in terms of productivity, process optimization and part quality.



# The Key Player of Additive Manufacturing

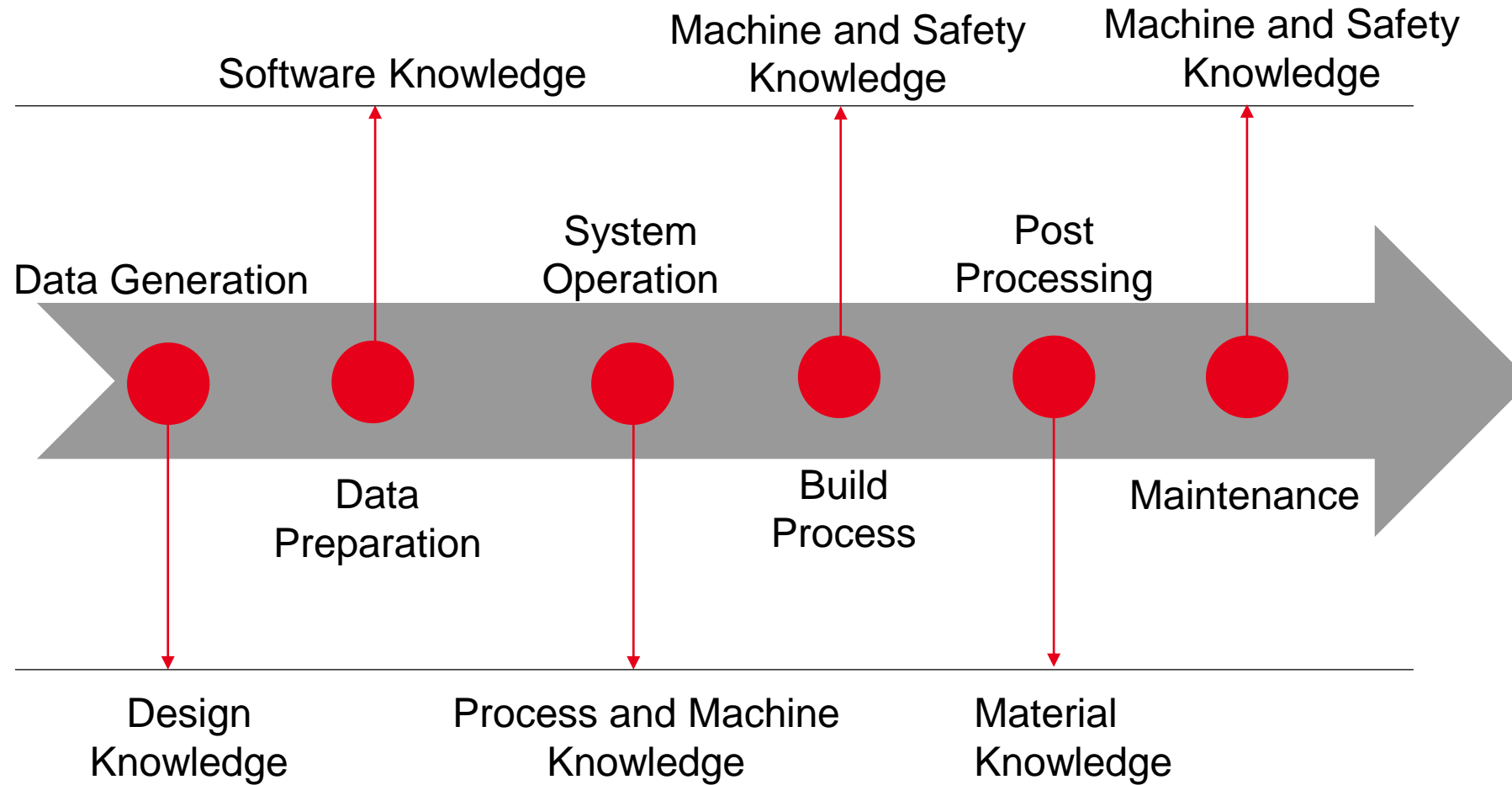


## TRAINING IS A METHOD OF ENHANCING HUMAN PERFORMANCE



## ENHANCING HUMAN PERFORMANCE INCREASES OPERATING TIME

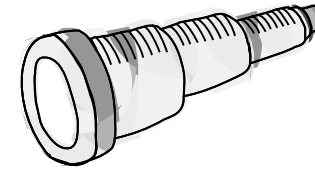






voxeljet has a unique training concept to pass on the knowledge

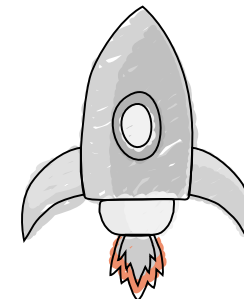
Learn all about the voxeljet 3D Printing System



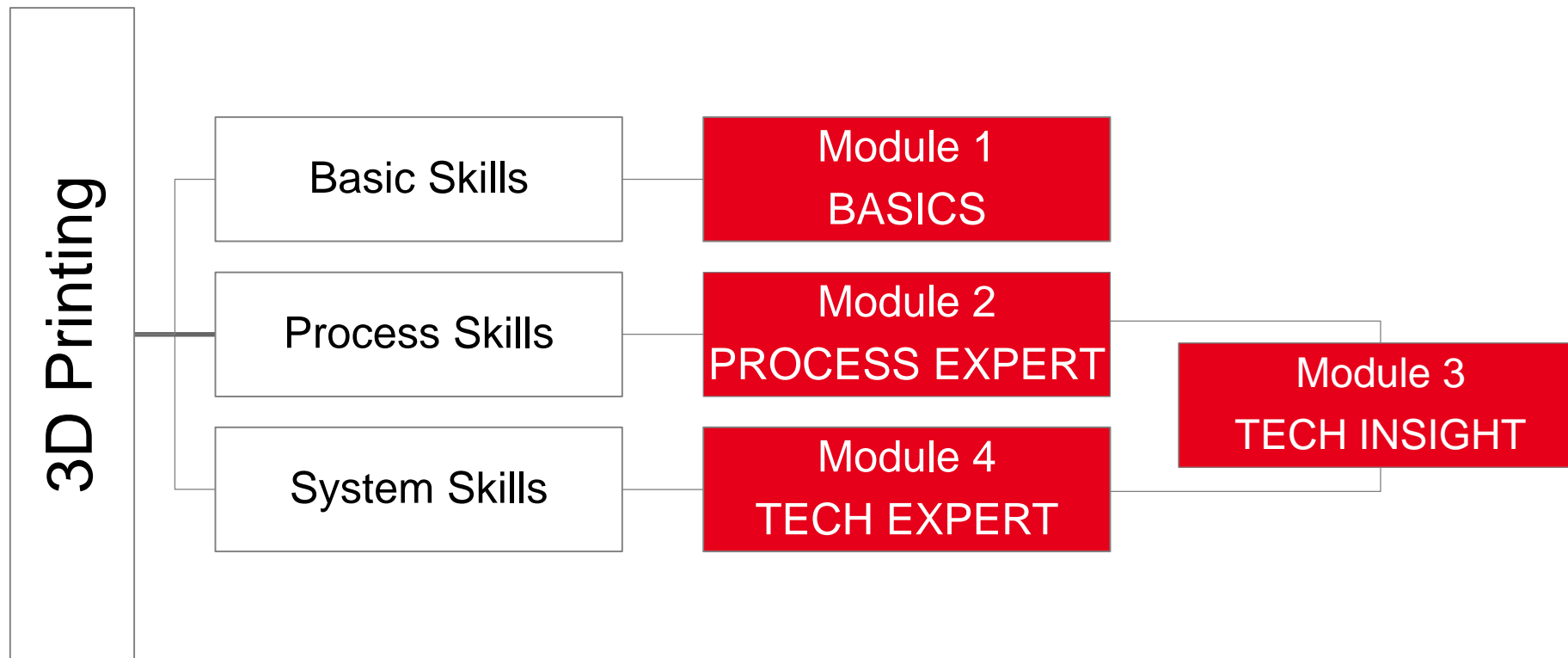
Identify your Application and Change your Mindset



Boost your Application



voxeljet's training scheme offers a modular structure:



# Training Matrix



		OPERATIONS PLANNING			SYSTEM BASICS, SYSTEM OPERATION & BUILD PROCESS	POST PROCESSING		COMPONENTS, MAINTENANCE AND TROUBLESHOOTING						AUXILIARY DEVICES	FIRMWARE			
		DATA CREATION	DATA PREPERATION	JOB PREPARATION		MATERIAL MANAGEMENT	APPLICATIONS	PRINTING DEVICES	RECOATER SYSTEM	CLEANING STATION	CAPPING STATION	FLUID SYSTEM	PRINT HEAD MONITORING	SYSTEM MONITORING		AXES SYSTEM	VRS, VSC, VUP, VSM, HCU, JOB BOX	
SYSTEM SKILLS	VX200	Repr3D			System Training VX200	MODUL 3 TECH INSIGHT	Function & Structure	Function & Structure	Function & Structure	Function & Structure	Function & Structure	Function & Structure	Function & Structure	Function & Structure	Function	MODULE 4 TECH EXPERT	ProPrint	
	VX200 HSS				System Training VX200 HSS												ProPrint	
	VX500				System Training VX500												Rapix3D	
	VX1000				System Training VX1000												ATLAS	
	VX2000				System Training VX2000												ATLAS	
	VX4000				System Training VX4000												ATLAS	
PROCESS SKILLS	PPB & PPC	Process Training PPB & PPC						Process Optimization									MODULE 2 PROCESS EXPERT	
	PPC²	Process Training PPC²																PPC²
	HSS	Process Training HSS																HSS
	PDB	Process Training PDB																PDB
	ODB	Process Training ODB																ODB
	IOB	Process Training IOB																IOB
	CDB	Process Training CDB																CDB
BASIC SKILLS	voxeljet Technology	Basic Design Rules															MODULE 1 BASICS	
	Additive Minds																	Material, Print Head & Process
TRAINING OPTIONS																		
VX User Training			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
VX Maintenance Training																	x	

## BENEFIT

- Acquire specific knowledge of the 3D printing system
- Learn more about the print-head technology
- Understand production concepts and contexts
- Get to know production strategies and the possibilities for 3D printed designs
- Get further insight into aspects relating to health, safety and the environment

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## CONTENT

- voxeljet technology: material and print head
- Process chain of additive manufacturing
- Applications of additive manufacturing
- Basic design rules
- Foundry technology

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## TARGET GROUP

Engineers, designers and (future) system operators

## QUALIFICATION

N/A

## TYPE OF TRAINING

Theory

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## DATES AND PRICES

On demand

## TRAINING OPTION

Active User Training

Active Engineer Training

## CONTACT PERSON

Stefan Kloß

## BENEFIT

- Understand the fundamentals of consumables
- Get to know the chemical composition of consumables
- Gain a comprehensive awareness of material management
- Understand and apply quality assessments for components
- Develop routines for process optimization

## CONTENT

- Materials and resources
- Safety aspects and environmental protection
- Personal protective equipment
- Material consumption
- Quality management for molds and components
- Process Optimization

## TARGET GROUP

Engineers, designers and (future) system operators

## QUALIFICATION

N/A

## TYPE OF TRAINING

Theory

## DATES AND PRICES

On demand

## TRAINING OPTION

Active User Training

## CONTACT PERSON

Stefan Kloß

## BENEFIT

- Develop a fundamental knowledge of 3D printing systems and a general understanding of processes
- Get to know and understand fundamental safety aspects
- Acquire know-how in operating the system
- Understand and apply component post-processing
- Understand safety when dealing with personal protective equipment

## CONTENT

- System Basics
- Data creation
- Data preparation
- Work preparation with Rapix3D
- Job preparation
- System operation
- Unpacking and finishing the parts
- Post processing

## TARGET GROUP

Engineers, designers and (future) system operators

## QUALIFICATION

Module 2

## TYPE OF TRAINING

Theory and practice

## DATES AND PRICES

On demand

## TRAINING OPTION

Active User Training

## CONTACT PERSON

Stefan Kloß

## BENEFIT

- Acquire an understanding of system component structures
- Understand and clarify the functions of system components
- Gain an awareness of maintenance work
- Develop strategies for resolving problems
- Gain a more in-depth knowledge of the system based on case studies

## CONTENT

- System Components
  - Print head
  - Recoater system
  - Cleaning & capping station
  - Fluid system
  - Print head monitoring
  - System monitoring
  - Axes system
- Maintenance and troubleshooting

## TARGET GROUP

Engineers, designers and (future) system operators

## QUALIFICATION

Module 3

## TYPE OF TRAINING

Theory and practice

## DATES AND PRICES

On demand

## TRAINING OPTION

Active User Training

Active Maintenance Training

## CONTACT PERSON

Stefan Kloß

What I **hear**, I *forget*.  
What I **see**, I *remember*.  
What I **do**, I *understand*.



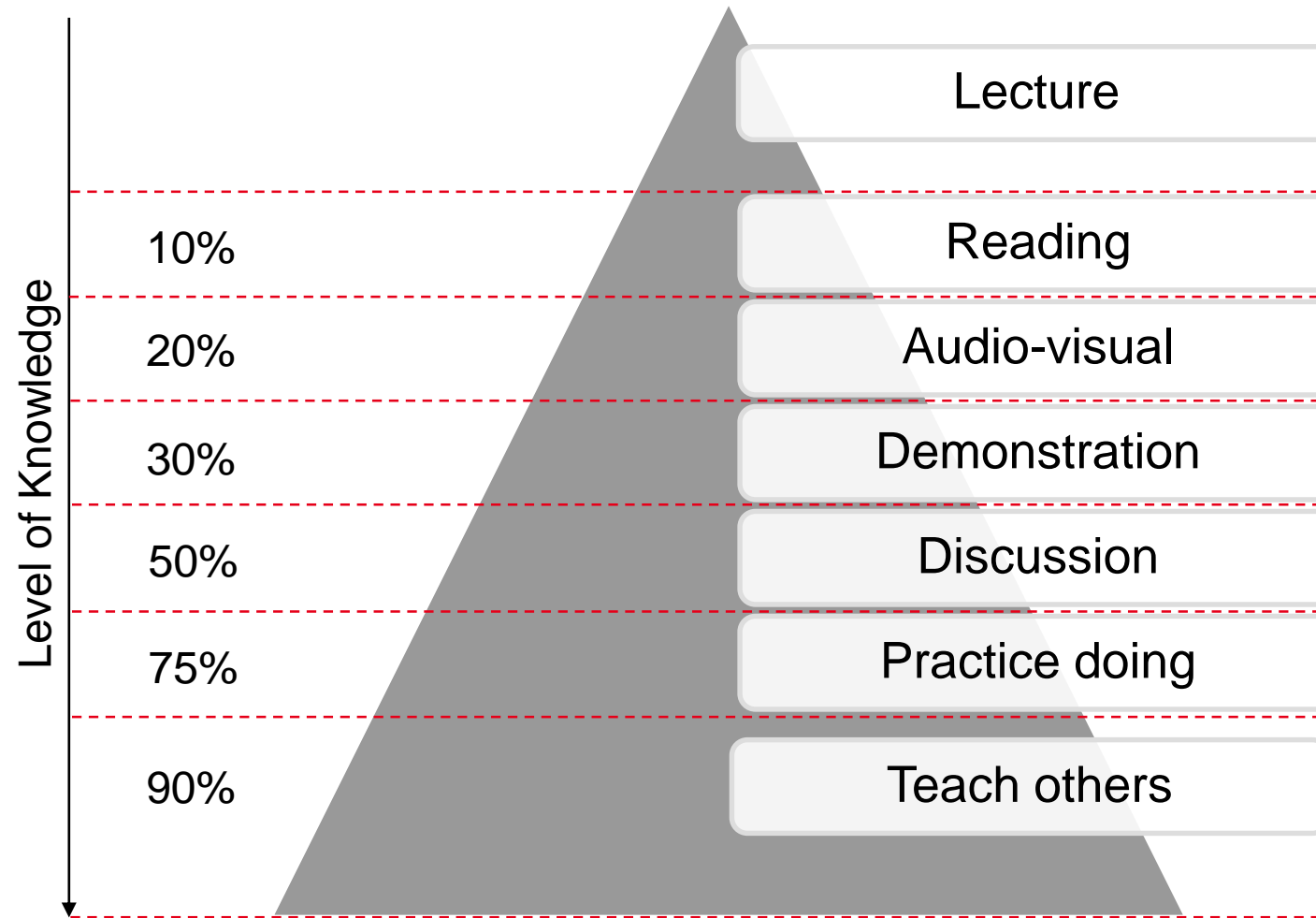
*When I only **hear**, I forget.*

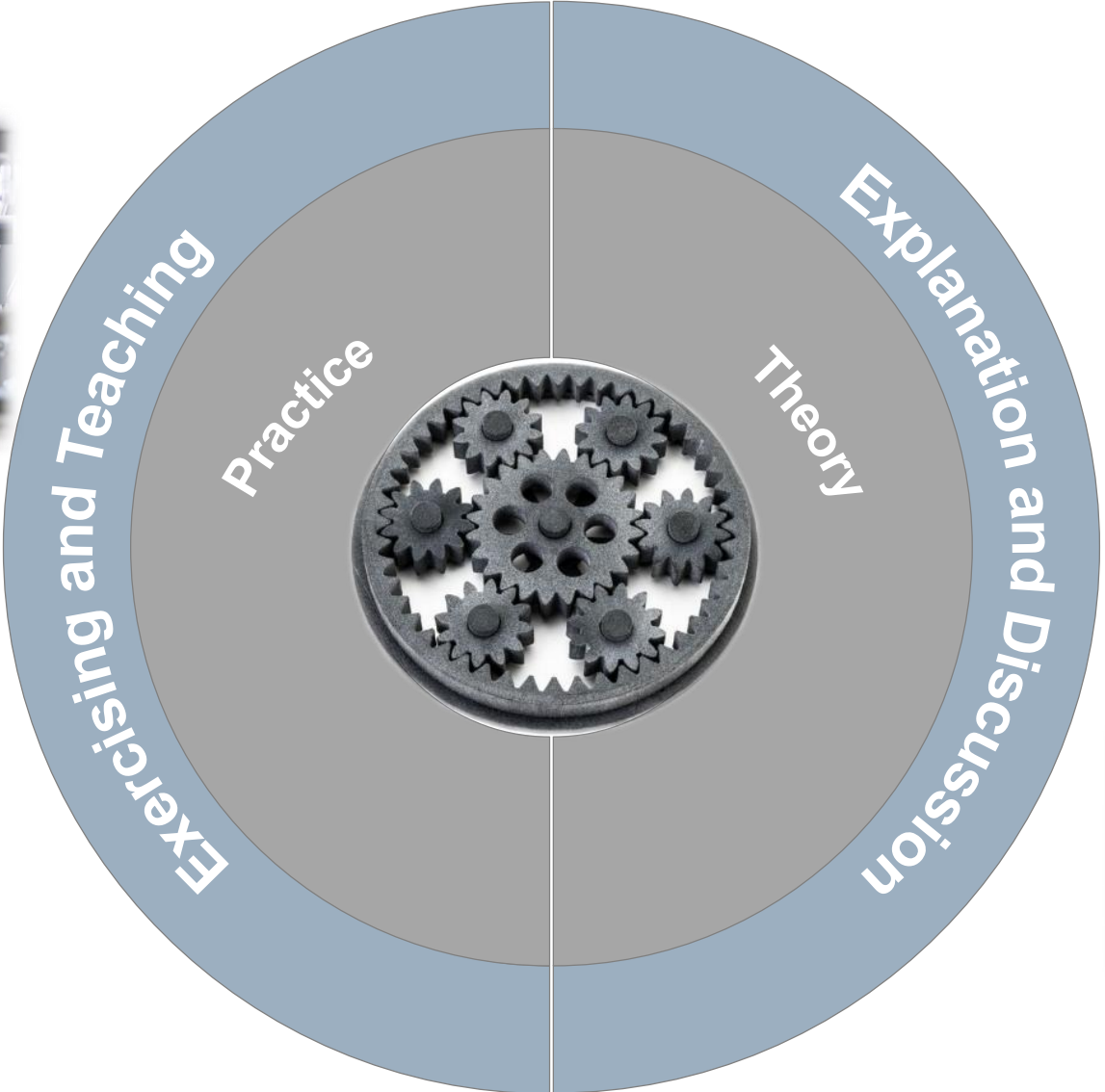
*When I hear and **see**, I remember a little.*

*When I hear, see, **ask questions** and **discuss** with someone, I begin to understand.*

*When I hear, see, **ask** questions, discuss, and **do**, I acquire knowledge and skills.*

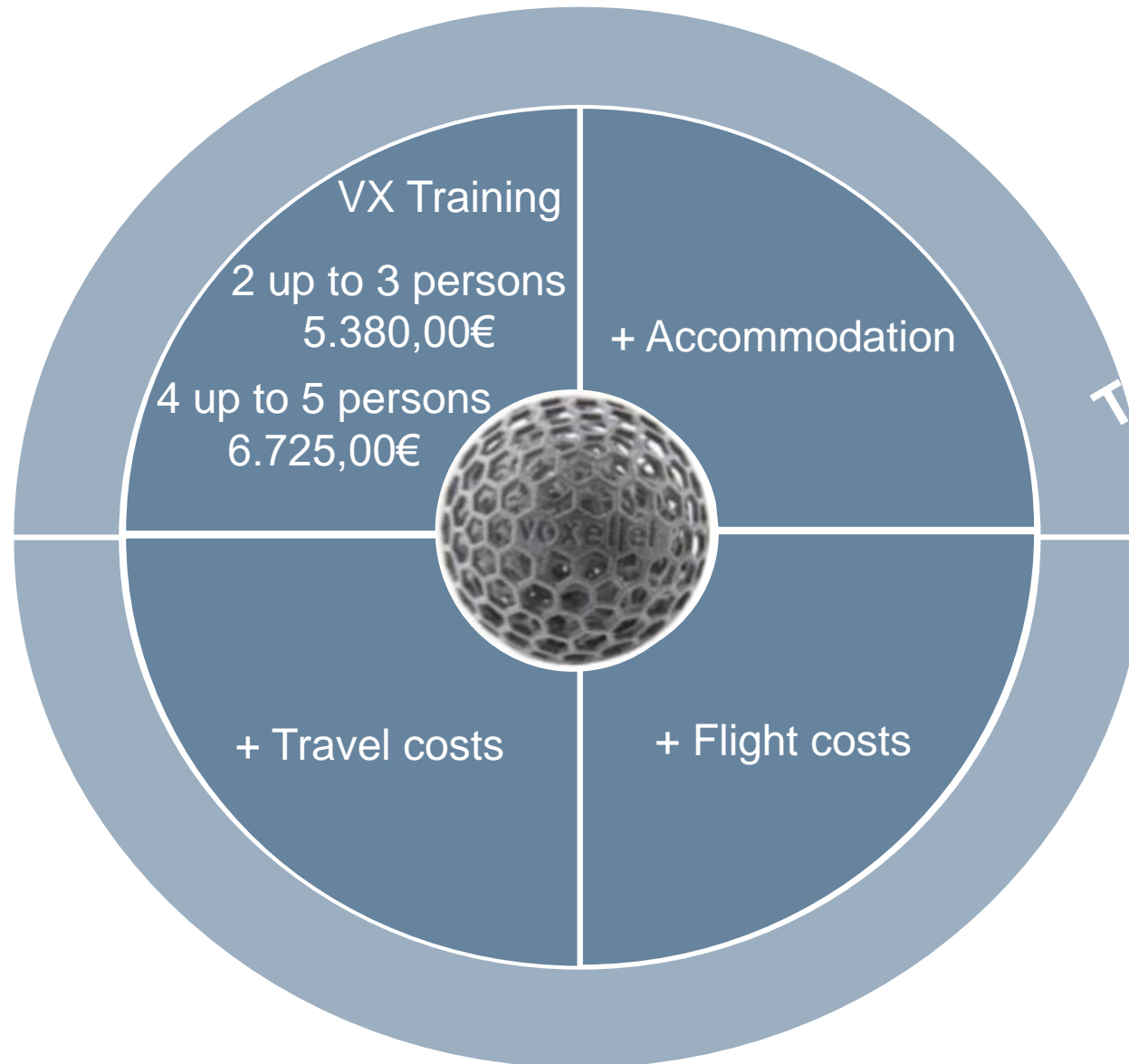
*When I **teach**, I master what I have learned.*





## YOUR BENEFITS

- Long-lasting transfer of knowledge through a structured training concept
- Gain first-hand knowledge from our experts
- Improve your employees' professional capabilities
- Acquire a comprehensive understanding of processes and workflow through the training programme
- Unleash the full potential of your 3D printing system
- Learn how to operate and maintain your 3D printing system accurately and efficiently
- Gather the necessary knowledge for high quality parts



# Welcome to the voxeljet Academy



I'm happy to pass on the 3D printing knowledge to you. Professional competence gives you the decisive advantage when working with your 3D printing system and printed forms and models.

**Stefan Kloß**  
**voxeljet Academy**

Fon +49 821 74 83 – 565

stefan.kloss@voxeljet.de

<https://www.voxeljet.com/3d-printing-systems/voxeljet-training/>

**voxeljet AG**

Paul-Lenz-Straße 1 | 86316 Friedberg | Germany

