Become a Binder Jetting Expert

VX User and Maintenance Training

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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
Qualifications

Software Knowledge

Data Generation

Data Preparation

Design Knowledge

System Operation

Build Process

Process and Machine Knowledge

Post Processing

Maintenance

Machine and Safety Knowledge

Material Knowledge

Machine and Safety Knowledge
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:

3D Printing

- Basic Skills
- Process Skills
- System Skills

Module 1: BASICS
Module 2: PROCESS EXPERT
Module 3: TECH INSIGHT
Module 4: TECH EXPERT
# Training Matrix

## Module 1: Basics
- Additive Manufacturing
- Casting Technology

## Module 2: Process Expert
- Process Training PPS & PPM
- Process Training PFC
- Process Training HSS
- Process Training PPS
- Process Training CDB
- Process Training CRB
- Process Training CDB

## Module 3: Tech Insight
- System Training VX2000
- System Training VX2000 HSS
- System Training VX1000
- System Training VX2000
- System Training VX1000

## Module 4: Tech Expert
- Tech Insight
- System Training VX2000
- System Training VX2000 HSS

## Training Options
- Basic Skills
  - Additive Manufacturing
  - Casting Technology
- Process Skills
  - PPS
  - PPM
  - PFC
  - HSS
  - PPS
  - CDB
  - CRB
  - CDB
- Operation Skills
  - VX2 User Training
  - VX2 Maintenance Training
MODULE 1 – BASICS

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

CONTENT

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

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
Active Engineer Training

CONTACT PERSON

Stefan Kloß
MODULE 2 – PROCESS EXPERT

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
MODULE 3 – TECH INSIGHT

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
MODULE 4 – TECH EXPERT

**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
Confucius says

*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.
Learning Pyramid

Level of Knowledge

10%
20%
30%
50%
75%
90%

Lecture
Reading
Audio-visual
Demonstration
Discussion
Practice doing
Teach others
Learning Strategy

Exercising and Teaching

Practice

Theory

Explanation and Discussion

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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
Training Costs

VX Training

- 2 up to 3 persons: 5,380,00€
- 4 up to 5 persons: 6,725,00€

+ Accommodation

+ Travel costs

+ Flight costs
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

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