

LEVEL 1 TRAINING

BEGINNER'S COURSE



COBOD's Level 1 Training offers an in-depth introduction to the field of 3D Construction Printing (3DCP). This course is specifically designed for beginners and aims to establish a strong foundational understanding of 3DCP principles. The program covers theoretical knowledge and experiences based on first-hand practice, including the operation and maintenance of COBOD hardware and software, ensuring new COBOD members are well-equipped to handle the technology.

Completion of Level 1 Training is an essential prerequisite before engaging in on-site activities, guaranteeing that participants are fully equipped to interact with COBOD 3D printers efficiently and safely.

The training is structured into five detailed modules, with a total instructional time of 12.5 hours; each individual session lasts 2.5 hours.



Module L1.1 - Modeling for 3DCP

Participants will learn essential design principles necessary for effective 3DCP, covering various construction stages and design considerations for structural integrity.



Module L1.2 - COBOD Slice

Focuses on transforming geometric designs into g-code with the COBOD Slicer, essential for preparing 3D printing designs to ensure accurate printer interpretation.



Module L1.3 - 3D Construction Printer

Provides a detailed look at COBOD 3D printers, guiding participants through the installation and operational procedures for effective printer management.



Module L1.4 - 3DCP Materials Training

Delves into the specifics of using concrete in 3DCP, discussing material properties, mixing techniques, and the steps to ensure quality in the printing process.



Module L1.5 - Material Delivery System

Teaches about the delivery system that provides materials to the printer, including an overview of the silo, batch plant, pump, and hose management.