3D Printer Training

Pre-training learning?

Safety & Health

Particle & VOC emissions

Layers, Support, & Infill

Strength via Walls vs Infill

Example Print

AMIL Keychain

Tour of AMIL 3D Printers

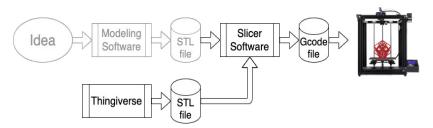
3D Printer Operations

Vernacular

Extruder, Hot End, Nozzle, Bowden Tube, Build Plate, Stepper Motors, Frame, Part Cooling Fan,

Bed Leveling

Load/Unload Filament



Slicer (Ultimaker Cura)

Filament Type, Layer Height, Infill, Top/Bottom Layers, Walls, Bed Adhesion, Supports

Removing Prints

Drying Filament

Troubleshooting Basics

- Dry filament?
- Poor first layer? → Clean bed, relevel, adjust Z-offset
- No extrusion? → Check nozzle temperature and filament path
- Stringing? → Increase retraction or lower temperature
- Warping? → Improve bed adhesion or add a brim
- https://www.simplify3d.com/resources/print-quality-troubleshooting/

Responsible & Ethical Use

No Weapons or Harmful Items Copyright Violations