Kalam Academy of Skill Development and Training



MOBILE SKILL DEVELOPMENT LAB

The Skilling Van

A fully retrofitted training and demonstration facility that takes hands-on skills to the learner.

One van. Many skills.

The retrofitted Skilling Van is a versatile, mobile training facility that supports skill-development programmes across a wide range of trades and vocational domains. It brings power, tools, and technology to remote sites and doubles as a field-support unit for surveys, testing and data collection.

6 kVA
Portable generator

1.2 kW
Rooftop solar PV

4 kW
MPPT hybrid inverter

20+
IoT sensors



Additive manufacturing
Multicolour 3D printing and prototyping



Optical fibre setup
Splicing, deployment and fault detection



PCB design and repair
Microscope station for fault addressing

WHAT IS ON BOARD

Equipment and training use

Portable generator. Uninterrupted power at remote sites, up to 6 kVA: enough for 45 computers, multiple 3D printers, mini CNC machines or welding equipment.

4 kW MPPT hybrid inverter. Configuring and troubleshooting solar MPPT controllers.

Optical fibre (OFC) setup. Network deployment, commissioning, troubleshooting and fault detection.

Juicing and packaging. Juice making and packaging with lug capping, cap corking and pulper.

PCB design and repair. Prototyping and fault addressing, including mobile phone repair.

Audio-video display. Presentations, teaching sessions, workshops and faculty development programmes.

Rooftop solar PV (1.2 kW). Training in rooftop grid setup, installation and commissioning.

Multicolour 3D printer. Automatic material system for additive manufacturing and prototyping.

Embedded starter kits. 20+ IoT sensors for Computer Vision and AI skilling.

Network CCTV station. Installation, commissioning and testing of camera systems.

High-end workstation. Computer-aided design, training and multiple support tasks.

On-board CCTV capability. Works as a traffic density survey or mobile surveillance van for real-time road traffic and pavement-health analysis.





Lockable storage and workstations, and the generator bay at the rear.

Beyond skilling: integrate as required

Hands-on training can extend to Computer Networking, Multimedia and Photography, Bakery and Confectionery, Perfume Making, HVAC, and EV Drivetrain and Electrical Systems.

As a field unit it supports surveys, testing, monitoring and data collection in Civil Engineering, Environmental Studies and other applied technical disciplines, serving urban planners, civil engineers and transport ministries.