

# Arriving Autumn 2026!



LJCREATE™  
Learning for life

## Smart Home Energy Trainer (123-01)

This **brand-new trainer** will be the latest addition to our range of Green Technology resources - demonstrating how a modern smart home produces, stores, and uses electrical energy.

The trainer will allow for safe exploration of the **energy management of the home**, utilising: solar power, battery storage, EV charging, heat pumps, and smart control systems.

Investigate how insulation installed in the roof, walls, and floors works to minimise heat loss and reduce energy consumption

View energy flow of heating and cooling systems that use heat pumps as an alternative to fossil fuel boilers

Schematic of home energy electrical circuits - with test points for signal monitoring and realistic fault-finding activities introduced by switched faults

Demonstrate how solar panels contribute to microenergy generation, and observe how surplus energy is fed back to the grid

Demonstrate how batteries store locally-generated solar energy, and low-cost off-peak grid energy, for use by heat pumps and other home appliances

Touchscreen display to view and control home systems including: heating/cooling, solar/battery, insulation, and vehicle charging

