

Advanced Diploma in Electric Vehicle Technology - Programme Syllabus

The programme syllabus will be delivered through a combination of learning resources, live lectures, community-based interactions and hands-on experience at L&A Centres as applicable.

Semester 1 - Introduction to Electric Vehicles

- Subject 1 - English Language and Communication Skills
- Subject 2 - Computer Fundamentals
- Subject 3 - Fundamentals of Electric Vehicles
- Subject 4 - EV Battery Technology
- Subject 5 - Energy Storage Systems and BMS

Semester 2 - Fundamentals of Battery System

- Subject 1 - Applied Physics
- Subject 2 - Applied Chemistry
- Subject 3 - Basic Electrical and Electronics
- Subject 4 - Engineering Drawing
- Subject 5 - Workshop Technology

Semester 3 - Introduction to Automobile Systems and Drafting

- Subject 1 - Applied Mathematics
- Subject 2 - Environmental Studies
- Subject 3 - Automotive Systems
- Subject 4 - EV Architecture
- Subject 5 - AutoCAD

Semester 4 - Electric Vehicle Subsystems and Regulations

- Subject 1 - Quality Control
- Subject 2 - Industrial Management
- Subject 3 - Motors and Controllers
- Subject 4 - Electric Vehicle Regulations
- Subject 5 - Charging Infrastructure

***Modules are subject to change based on Academic Partner's discretion; learners will be informed of the final curriculum during the orientation.**