

**NFE025**  
**Driver Training**  
**Electric Vehicle (EV) Familiarisation and Training**



## INTRODUCTION

VENUE:	Any suitable UK location / Donington Park Training Centre, DE74 2RP
NO. OF TRAINEES:	1:1 full day or 2:1 full day
TRAINING DETAILS:	<b>Electric Vehicle (EV) Familiarisation and Training</b>
EVENT DURATION:	Full Day 09:00 – 16:30 (Flexible hours can be requested on booking form)

## DETAIL

The course proposed is a full day in duration and begins with a briefing and objective setting session; this also provides the opportunity for delegates to offer any specific concerns relating to their general driving or any of the course content.

Setting the scene for any training course is of paramount importance and this particular briefing will cover the reasons for the course which may include the trainee's driving performance, vehicle familiarisation or may be as part of a company's general H&S policy.

As with all our practical training courses, this course includes a pre-course Automotional Driver Profiler (on-line ADP) and post training, a full course report will be e-mailed directly to the participant and course administrator as required.

This ensures that full H&S Duty of Care responsibilities are covered.

Automotional trainers who deliver this course are Energy Saving Trust (EST) trained, and Automotional is accredited with the EST and DFT to deliver and complete reporting for Electric Vehicle (EV) training course.

## CONTENT

- Checking how to connect and disconnect to a charge point; introduction to controls, energy consumption displays, charge rate and range; eco features including 'B' and 'Eco' modes and remote climate control
- On the road driving techniques; early release of accelerator, using regenerative braking; how to most economical use of available energy; feedback from multi-function display
- Range Planning; finding suitable charge points and how to use them; long journey planning; different types of charging point
- Safe driving including compliance of rules of the road and hints at reducing energy consumption

## WORKSHOP SESSION

A full briefing will be given to the trainee/s and we will then move onto the theory side of the technology, maintenance and driving of an electric vehicle, this session will cover **ALL** electric vehicles from current models back to 1<sup>st</sup> generation technology.

### **BEV (Battery-electric EV)**

A vehicle powered solely by a battery charged from mains electricity. Currently typical pure-electric cars have a range more than 80 miles with many of the newest travelling even further. As with conventional motoring, driving style, speed and air conditioning/heating use can reduce the range available. Current models include Nissan Leaf, BMW i3, Renault Zoe and Kia Soul.

### **PHEV (Plug-in Hybrid EV)**

A vehicle with a plug-in battery and an internal combustion engine powered by petrol or diesel. Typical PHEVs will have a pure-electric range of up to 30 miles. The benefit of these vehicles is that once the electric battery is depleted, journeys can continue in hybrid mode. This gives a range more than 300 miles. The Mitsubishi Outlander PHEV, Audi e-tron and VW Golf GTE are all current examples of such technology.

### **E-REV (Extended Range EV)**

These are a version of plug-in hybrids, with the vehicle powered by a battery with a petrol- or diesel-powered generator on board. With an E-REV the propulsion technology is always electric, and range can be between 150-300 miles. The BMW i3 range-extender is an example.

Topics covered and discussed in this session include; the benefits, connection/disconnection and charging including locations and charge rates, controls and displays, range and planning, instant torque, vehicle noise, best practice for battery condition and first time EV drivers – all of this is then brought home to the trainee/s by conducting all the elements within the practical session.

## PRACTICAL SESSION

Following the briefing and workshop session the course will commence with an eyesight and vehicle check. Our trainer will then take to the wheel to demonstrate many of the aspects covered in the briefing and to further set the scene. Following this the trainee will then drive for the remainder of the session, taking breaks where required, covering the below;

- On the road driving techniques; early release of accelerator, using regenerative braking; how to most economical use of available energy; feedback from multi-function display
- Range planning; finding suitable charge points and how to use them; long journey planning; different types of charging point
- Safe driving including compliance of rules of the road and hints at reducing energy consumption
- Developing the driver's expertise in managing the high-risk environment of urban driving and reducing the likelihood of being involved in a preventable driving incident.
- Other road types will also be covered depending on the geographical location of the training session and the driver's personal needs.
- The coaching session will develop the perceptual skills outlined in the presentation and to provide ample opportunities to explore the principles of keeping space, identifying risk and keeping visible and communicating with other road users.

## WHO IS THIS FOR?

Any driver who requires an induction into operating and driving an Electric Vehicle (EV)

## OUTCOME

The driver, having successfully completed the course will have a comprehensive knowledge of Electric Vehicles - the benefits, technology, safety and driving techniques required to operate an Electric Vehicle.

A full and detailed report will be produced post training / assessment for the driver & manager and a certificate of training issued.