

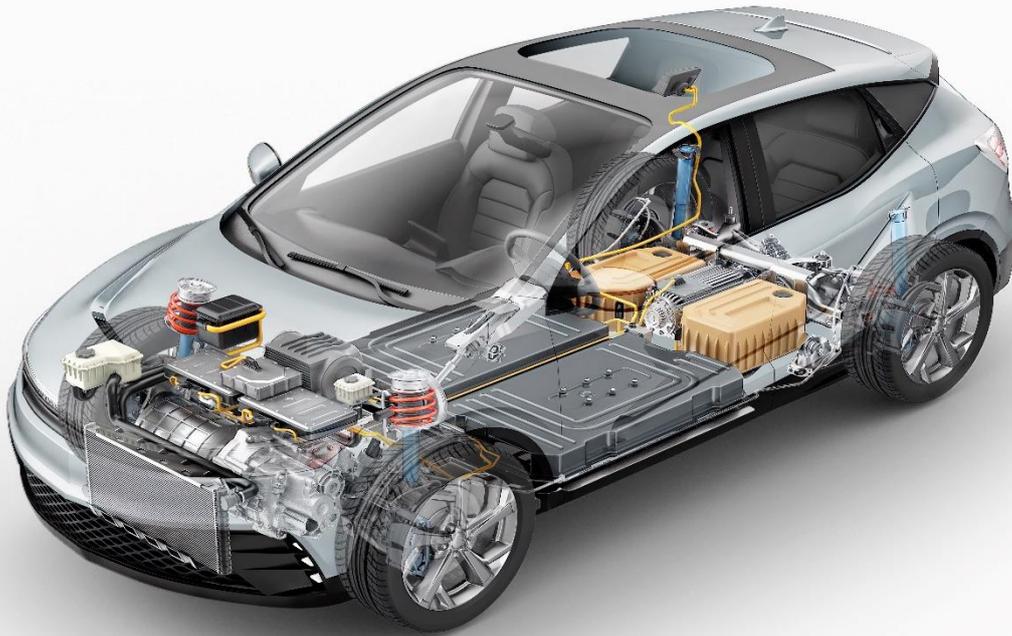
NORTH WEST

**AUTOMOTIVE
TRAINING SOLUTIONS**

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IMI LEVEL 3 AWARD - TECHNICAL SPECIALIST ELECTRIC / HYBRID VEHICLE SYSTEM REPAIR AND REPLACEMENT

COURSE DURATION & COST:

2 Day Course

£599.00 + VAT

Per Delegate.

This includes registration
and certification with the
IMI.

COURSE AIM:

The Level 3 Award is designed to give the skills and knowledge to safely prepare the vehicle for work, carry out testing and repair activities, this course compliments current industry qualifications providing candidates with an IMI certified qualification allowing safe working practices whilst working on high voltage vehicles and removing and replacing system components on a non-live vehicle.

It is therefore designed for technicians who may encounter Electric/Hybrid vehicles within a routine maintenance or repair situation. It also contains the skills and knowledge required to work safely around a vehicle that may have damage to its high energy/electrical system requiring parts replacement.



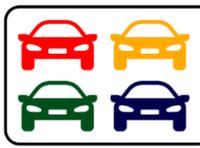
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TechSafe



Danger
High
voltage



WHO IS THE LEVEL 3 ELECTRIC/HYBRID VEHICLE ROUTE FOR?

This IMI qualification is designed for senior and experienced technicians who are working with electric and hybrid vehicles on a regular basis. It contains the knowledge needed to safely work around the main electrical components within the vehicle whilst completing repair activities. This may include vehicles that have received damage to their high voltage electrical system.

Applicants should possess relevant vehicle system maintenance repair qualifications, knowledge and experience at Level 3, and be an active technician currently working in the light vehicle maintenance or accident repair sector.

WHAT WILL THE CANDIDATE STUDY AS PART OF THIS QUALIFICATION?

- The correct methods for shutting down and isolating high voltage systems.
- The correct measurement procedures and approved tools.
- The layout and construction of hybrid and electric drive powertrain systems and the identification of key components.
- The principles of high voltage battery construction, management and monitoring systems.
- The design, construction and operating principles of three phase, brushless motor/generator systems.
- The control systems required for efficient operation, and methods of electrical rectification and regulation.
- Demonstrate how to remove and refit a high voltage component.
- The diagnosis of system faults and monitoring of live data using suitable diagnostic equipment.
- Demonstrate how to remove and refit a high voltage component.

Candidates successfully completing this qualification will acquire significant core knowledge and skills and the ability to remove and replace Electric/Hybrid vehicle components on a non-live vehicle.

ASSESSMENT:

This knowledge qualification contains two mandatory units:

- EV2.2 - tested via an IMI online assessment. (30 questions – 60% pass mark).
- EV2.3 - practical assessment demonstrating technical ability on an Electric/Hybrid vehicle.

FURTHER PROGRESSION:

This qualification will help support their progression onto qualifications that further develop their knowledge and skills on Electric/Hybrid vehicles.

- Equipotential Bonding and Insulation Testing
- Level 4 Award in the Diagnosis, Testing and Repair of Electric/Hybrid Vehicles and Components.



For enquiries or bookings:



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