

# IMI Diagnosis, Testing and Repair of Electrical/Hybrid Vehicles and Components Level 4



### In a nutshell

This course is available as part of a Personal Learning Account (PLA). PLA is an initiative from the Welsh Government which offers people the chance to access free, part-time courses with flexible and convenient learning that fits around their existing lifestyle (subject to eligibility).

This qualification has been developed in close liaison with industry specialists, electric vehicle manufacturers, training providers, the health and safety executive and the IMI Sector Skills Council. This is the first qualification of its kind to address working on live electric/hybrid vehicle high voltage vehicle systems and components. The qualification is essential to ensure the health and safety of individuals working on electric/hybrid vehicles. On completion of this qualification technicians will be able to practically demonstrate that they have the skills required for repairing high voltage vehicle systems and components.

This qualification is designed for technicians who maintain and repair electric/hybrid high voltage vehicle systems and components. It contains the knowledge and skills required to work on live high voltage vehicle electrical components and associated systems.

On completion, technicians will be able to practically demonstrate that they have the skills

required to repair high voltage vehicle electrical components and systems.

## **This course is for...**

... anyone aged 19+, living in Wales, in employment and earning less than £32,371

... those who have completed their IMI Level 3 Award in Electric/Hybrid Vehicle System Repair & Replacement qualification

... those who are senior technicians and master technicians and engineers

## **Course content**

Learners successfully completing this qualification will acquire significant core knowledge and skills and the ability to remove, replace and repair electric/hybrid vehicle high voltage components.

This Qualification consists of one mandatory unit EV4, the evidence requirements are as follows:

- Prepare the high voltage battery to be removed from the vehicle
- Remove and replace a high voltage battery module from the high voltage battery
- Balance high voltage battery modules
- Refit the high voltage battery to the vehicle
- Carry out diagnosis and testing of electric motors and invertors
- Carry out voltage shut down and power up procedures
- Carry out a functional check on the high voltage vehicle systems following successful completion of repair

As a result, learners successfully completing this qualification will acquire significant core knowledge and skills and the ability to remove, replace and repair Electric/Hybrid vehicle high voltage components.

## **Entry Requirements**

This course is suitable for senior technicians and master technicians and engineers. You will need to have IMI Level 3 Award in Electric/Hybrid Vehicle System Repair & Replacement qualification.



# COURSE INFORMATION LEAFLET

## Additional information

The course will consist of practical assessments, oral assessments and a written assessment.

Apply online at [www.coleggwent.ac.uk](http://www.coleggwent.ac.uk)

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