

Level 4 Award in the Diagnosis, Testing and Repair of Electric/Hybrid Vehicles and Components (2 Days)

Course Synopsis



Target Audience

Light Vehicle Diagnostic/Master Technicians, Technical Trainers/Instructors, Automotive Engineers and Designers

Overview

This course is specifically designed for delegates that have completed the level 3 Award qualification in Electrically Propelled Vehicle Repair and Replacement. This training and qualification is designed to further understand the HV Battery management for both Nickel Metal Hybrid and Lithium Ion batteries, the operation and control of Inverters/Converters and the methods to control Three phase Synchronous brushless drive motors/generators. It will involve diagnostic and data gathering to troubleshoot HV system and the high level of safety involved within an organisation that wishes to service, maintain, diagnose and repair HV components on both Hybrid and Pure Electric Vehicles.

Note - a written assignment and 2x practical tasks are required for this qualification.

This course content is designed towards a Nationally recognised level 4 qualification VRQ (Vocational Related Qualification) and if successful the delegate will receive a Qualification certificate which can be put towards a program of Continuous Professional Development (CPD).

Subjects Covered

- Terminology
- HV Battery management
- Sensor components, construction and function
- Battery failure diagnosis and repair procedures
- Inverter construction and function
- Three phase construction and function
- Resolver operation and monitoring
- Fault diagnosis
- HV component repair
- Safety management processes

Certification

I.D No: 610/0975/1 - IMI Level 4 Award in the Diagnosis, Testing and Repair of Electric/Hybrid Vehicles and Components

