

# Diagnosis and Rectification of Faults in Electric and Hybrid Vehicles

Subject Area	Automotive & Motor Vehicle
Course Type	Adult
Study Level	Level 4
Delivery Mode	Part-time
Duration	3 Days
Start Date	
Course Code	PA000403

## Course Summary

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Sales of hybrid and electric vehicles (HEVs) are surging globally, with projections placing them at 58% of new car sales by 2040. This means there is a growing demand for mechanics with specialized skills to service and repair these increasingly complex vehicles. But, high-voltage batteries and electrical systems present unique safety risks compared to traditional gasoline vehicles. If you are already working with hybrid and electric vehicles, and want to develop your knowledge and skills further and gain a qualification, this course is for you. You will develop your in-depth technical skills and learn how to safely diagnose and rectify high-voltage system faults, test, remove and replace high-voltage battery packs and battery modules, and to safely store high-voltage battery packs.

## What You Will Learn

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You will learn:

1. Safe diagnosis and rectification of high voltage system faults

2. Test, remove and replace high voltage battery packs and battery modules
3. Safely store high voltage battery packs

## Entry Requirements

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- Learners must hold a Level 3 qualification in high voltage Electric Vehicles.
- Learners must have a strong understanding of electrical principles: Knowledge of basic electrical circuits, components, and troubleshooting techniques is essential for safely working with high-voltage systems in HEVs before enrolling.

## Progression

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This qualification allows learners to develop and practice the skills required for employment and/or career progression in the repair and diagnosis of high voltage system faults in electric vehicles.

Mechanics equipped with Level 4 skills will be highly sought-after and command higher wages, ensuring career longevity and upward mobility in the evolving automotive industry.

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