

Component Removal and Replacement in Electric and Hybrid Vehicles (Adults)

Subject Area	Automotive & Motor Vehicle
Course Type	Adult
Study Level	Level 3
Delivery Mode	Part-time
Location	Bowling Back Lane Auto
Duration	5 Days
Start Date	February 2025
Course Code	

Course Summary

Our Level 3 qualification is designed for people looking to develop their knowledge and skills to allow them to safely carry out the removal and replacement of components on electric vehicle systems. This qualification covers the competence and knowledge to safely carry out the removal and replacement of components in isolated high voltage systems in an electric vehicle. High voltage systems include the powertrain and ancillary systems. Dates for this course are: 13th May – 15th May 3rd June – 5th June 17th June – 19th June 8th July – 10th July 22nd July – 24th July

What You Will Learn

- Understand the operation of electric vehicle systems
- Understand the features, function and construction of electric vehicle components and alternative fuel systems
- Understand the electrical and electronic principles relating to low and high voltage systems and components
- Understand the importance of adhering to health and safety legislation, regulations, guidelines, and workplace procedures and know how to work safely around electric vehicles

- Understand the hazards associated with working on electric vehicles and how to minimise risk to yourself and others when removing and replacing components in an electric vehicle
- Understand how to test, remove, and replace components in an electric vehicle

Modules

Entry Requirements

Entry to this course requires a Level 2 qualification or above in a related area, or have relevant knowledge and experience in automotive studies.

Assessment

Assessment includes successful completion of the multiple-choice questions for the essential knowledge and the practical assessment task for the skills.

Progression

Successful completion of this course can lead to further study or employment. Careers include:

- Specialist Technician in hybrid and electric vehicle maintenance and repair.