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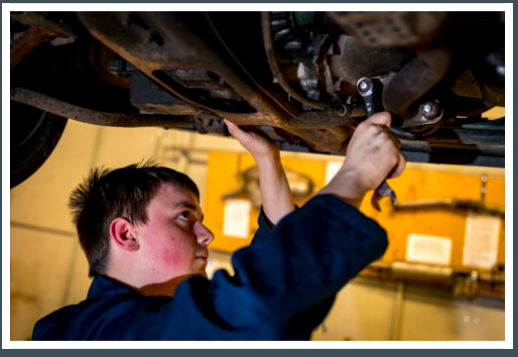
Component Removal and Replacement in Electric and Hybrid Vehicles (Adults)



Subject Area	Automotive & Motor Vehicle
Course Type	Adult (19+)
Study Level	Level 3
Delivery Mode	Part-time
Duration	3 Days
Start Date	September 2027
Course Code	PA000342

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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.

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

Entry Requirements

Entry to this course requires a Level 2 qualification or above in Hybrid operation and maintenance or industry experience

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.

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