



## Electrical Testing & Diagnostics

Electrical Testing & Diagnostics is a 2-day course combining our industry leading Electrical Testing Essentials and Electrical Diagnostic Techniques training courses.

Electrical Testing Essentials is a specialised course developed by our expert team of trainers to ensure your clear comprehension of low voltage DC circuits. Mastering this essential subject is arguably the most critical skill for any vehicle technician looking to future proof their skills.

You'll grasp the fundamentals of electrical circuits, proficiently measure voltage, current, and resistance, interpret measurement results, and select appropriate tools for efficient and effective electrical testing. Through hands-on experience and expert guidance, you will identify common electrical faults and learn skills including:

- Confidently testing circuits by accurately measuring voltage, current, and resistance
- Employing volt drop testing to pinpoint numerous common faults
- Understanding multimeter readings and distinguishing between acceptable values and indicators of faults
- Expanding your understanding of multimeter capabilities
- Diagnosing issues related to sensors, actuators, and power supply circuits
- Identifying open circuits, high resistances, and short circuits
- Mastering the interpretation of wiring diagrams
- Approaching electrical faults systematically to extract maximum diagnostic information in minimal time

If you're eager to delve into professional electrical fault diagnosis, this course is your gateway to mastering diagnostic techniques used by seasoned professionals.

Day two features **Advanced Electrical Diagnosis Techniques** which is the natural progression after completing our foundational **Electrical Testing Essentials** course. In day 2, you'll delve into practical troubleshooting methods for sensors, actuators, and power supplies, learning to swiftly and effectively test circuits and achieve pinpoint diagnoses.

This course will empower you with the confidence and skills to tackle complex electrical issues, including:

- Development of a structured diagnostic process
- Interpretation of fault codes and their meanings
- Insight into the significance of load testing circuits and practical methodologies
- Training in quick and effective testing techniques
- Techniques for bypassing and simulating sensors and actuators to validate fixes before costly component replacement
- Exposure to advanced diagnostic strategies employed by seasoned auto electricians

For those serious about mastering the art of electrical diagnosis and enhancing your skill set, this course is quite simply, essential.