



Electrical Systems and Diagnosis

IRTEC Advanced Technician level supplementary module by AK Training

This is a comprehensive, two part vehicle electrical course. It is aimed at technicians working in the heavy to medium sector of the motor industry including public service vehicles and emergency services (in particular fire and rescue services). The course covers the following main subjects:

Part 1 (three days)

- Health and Safety
- Review of electrical principles
- Digital multi meter functions and accessories
- Practical circuit testing techniques
- ISO relays and electronic relays
- Batteries, charging and starting systems diagnosis
- Workshop information systems and wiring diagrams
- Course assessment

Part 2 (three days)

- Review of part 1
- Oscilloscope features and functions
- Sensors and actuators testing and diagnosis
- Semi conductors and solid state components
- Electronic system functions and controls
- Technical overview of electrical systems and components
- Practical fault finding and diagnostic routines
- Course assessment



See over the page for further details about this course

ELECTRICAL SYSTEMS COURSE INFORMATION

This course is designed for on site delivery at clients premises and is accredited by IRTEC at Advanced Technician level under the IRTEC technician licensing scheme. For further information, contact:

Tony Kitchen MIMI (AK Training)

TELEPHONE: 01908 579309 **MOBILE:** 07968 842274

E-MAIL: info@akautomotivetraining.co.uk

www.akautomotivetraining.co.uk

Further information

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Delegates must successfully complete part 1 of the course before attending part 2. The course comprises of a range of practical activities to develop the knowledge and skills required to carry out effective testing and diagnosis of modern vehicle electrical systems. This includes the use of test instruments and oscilloscopes, wiring diagrams and technical information sources, and the implementation of logical fault finding routines and disciplines. Assessment is ongoing throughout the course via a series of multiple choice questionnaires and assessment of practical activities. To successfully complete the course, participants must achieve 80% in each of the assessments and also 80% overall at the end of the course.

Upon successful completion of the course, delegates will receive a certificate of professional competence from the Institute of Road Transport Engineers in recognition of their achievement. For those working towards gaining an IRTEC license, the course is accredited as a supplementary module at Advanced Technician level under the IRTEC Technician Licensing scheme.

Vehicle technicians from the Merseyside Fire and Rescue Service successfully completed the Electrical Systems and Diagnosis course with AK Training. The course was delivered as part of an ongoing staff training and development programme undertaken by Merseyside Fire Service to have their technicians licensed under the IRTEC licensing scheme. The technicians are now accredited with a supplementary module at Advanced Level towards obtaining their IRTEC licence.



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