



Common rail diesel fuel systems

This is a one day technical course covering fault finding and diagnosis of common rail diesel fuel systems. Course content includes the following main subjects:

- Common rail main features and functions.
- Overview common rail system variants.
- Low and high pressure fuel supply.
- High pressure fuel pumps and pump diagnosis.
- Fuel metering regulation.
- Fuel high pressure control.
- Fuel pressure sensor circuit.
- Injectors: operation, testing and diagnosis (including piezo injectors and coding).
- Engine management control functions.
- EOBD.
- Fault finding and diagnostic techniques.



Course aims are to explain the operation of common rail diesel fuel systems and how to diagnose system faults. During the course, delegates learn how to test the common rail diesel fuel system using diagnostic equipment and oscilloscope in conjunction with wiring diagrams and available technical information systems. Workshop sessions are carried out on live vehicles and working engine rigs.

At the start of the course, delegates each receive a detailed, full colour set of course notes. By the end of the course, delegates will have gained knowledge and skills that should be useful to them when diagnosing common rail diesel fuel systems.

The course features the following diagnostic tools and technical information systems:

- Tech II diagnostic scan tool
- Carman Scan VG+ diagnostic scan tool
- PicoScope
- Autodata CD3



Pre requisites for attending this course

- Thorough knowledge and understanding of electrical systems and circuit testing techniques.
- Understand sensors and actuators test procedures.
- Competency using an oscilloscope and diagnostic scan tool.
- Ability to read wiring diagrams.
- PC skills would be useful at this level.

Prior relevant courses with AK Training

- Vehicle electrics module 1.
- Vehicle electrics module 2.
- Oscilloscope diagnostics.

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