

Course Overview

This course is for technicians who carry out gasoline emissions testing or utilise gas readings in the analysis of engine running faults. The aim is to provide delegates with the skills and knowledge required to identify emissions related problems and make effective use of emissions test data for engine management system diagnosis. Identification of faults using tail-pipe gas indications requires a thorough understanding of the gasses involved and the related ECU controls. Techniques covered include testing of the system via analysis of the exhaust gasses using emissions test equipment, alongside oscilloscope testing of the oxygen sensors and interrogation of the onboard self-diagnosis system.

Who is the course for?

Vehicle technicians with a sound knowledge of spark ignition engine management diagnostics, are familiar with the use of a typical 4-gas analyser and proficient in the operation of an oscilloscope and a diagnostic tester.

What will I get out of it?

You will be able to:

- Identify and state the function of a typical gasoline direct injection system including the operating modes, sensors and actuators.
- Utilise serial diagnostic data and an oscilloscope for the testing of system component input and output signals.
- Understand effective test procedures to diagnose typical system faults.
- Understand test outcomes to determine system or component repairs.

Course Duration

25Hours (5 days)

Course Format

Labs /workshop

Course Fees

200 Omani Rial

Language

Arabic/English



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