



## Course Overview

This course is relevant to all technicians involved in the diagnosis and repair of petrol engine management systems. While some operating conditions and faults can be indicated by the use of a diagnostic tester, an ignition oscilloscope is a vital diagnostic tool, and an understanding of ignition waveforms can aid in diagnosing combustion faults and the ignition system performance. The course covers all spark ignition technologies and will provide learners with an in-depth understanding of the ignition process and analysis of ignition related faults.

## Who is the course for?

Vehicle technicians who have some prior experience in using an oscilloscope.

## What will I get out of it?

You will be able to:

- Understand the working principles of ignition system components.
- Connect and use an oscilloscope to display ignition waveforms.
- Interpret Primary and Secondary ignition oscilloscope displays and data.
- Carry out ignition diagnostic tests to indicate ignition system and engine management system faults.

**Course Duration**

30Hours (5 days)

**Course Format**

Labs /workshop

**Course Fees**

240 Omani Rial

**Language**

Arabic/English



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National College of Automotive Technology