

Lucas



E-learning catalogue



All Lucas Academy courses are now quality assured by IMI Awards!

IMI Awards are the market leader for automotive qualifications and accreditations, their approved courses are the industry standard for automotive training and are widely recognised by employers.

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Company

Lucas Academy is a global company for training of automotive technologies based in Hastings (East Sussex) but also fully operating in four more locations across the UK: London, Manchester, Birmingham and Glasgow.

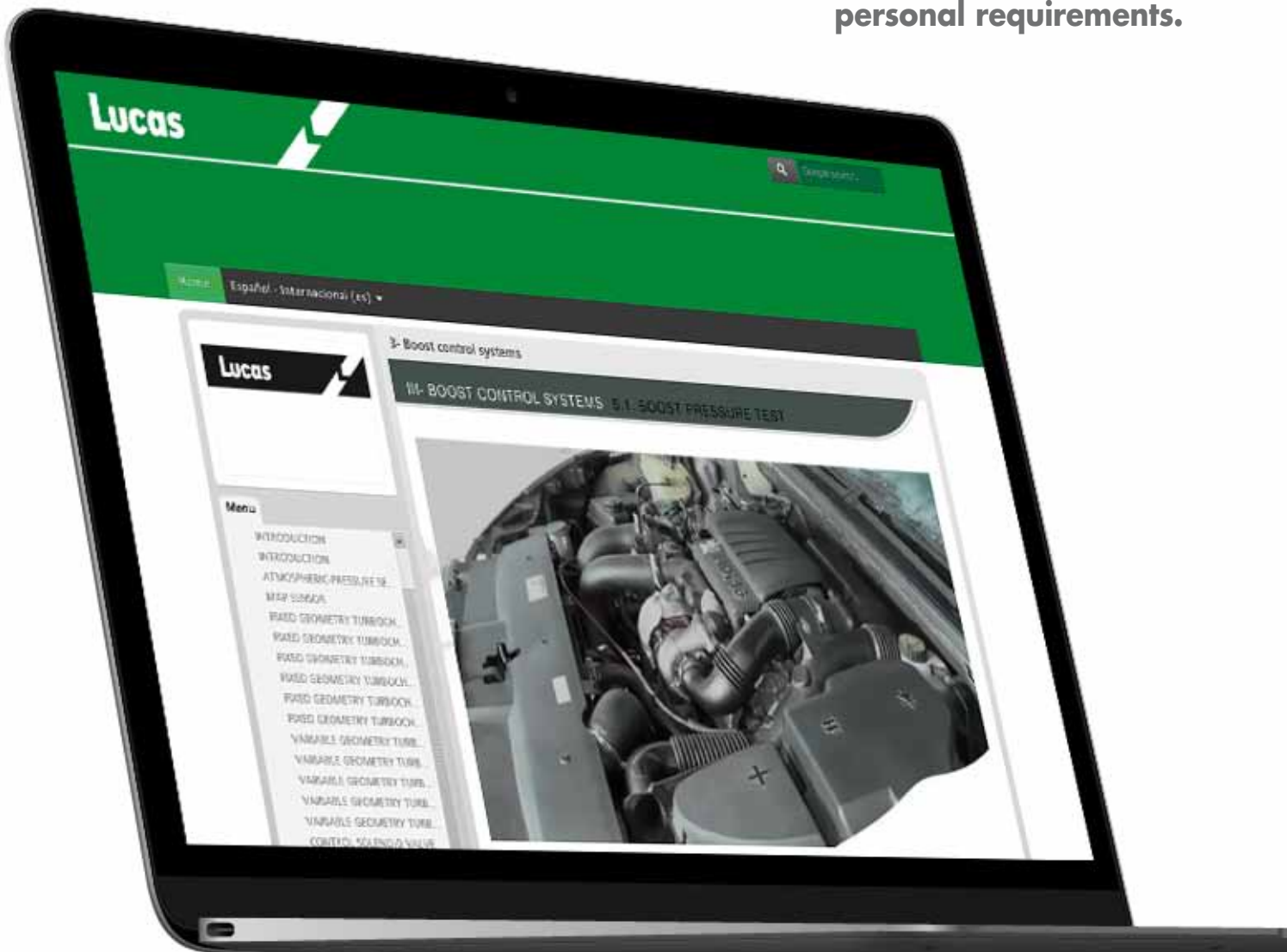
Our technical courses are certified by the Institute of the Motor Industry (IMI).

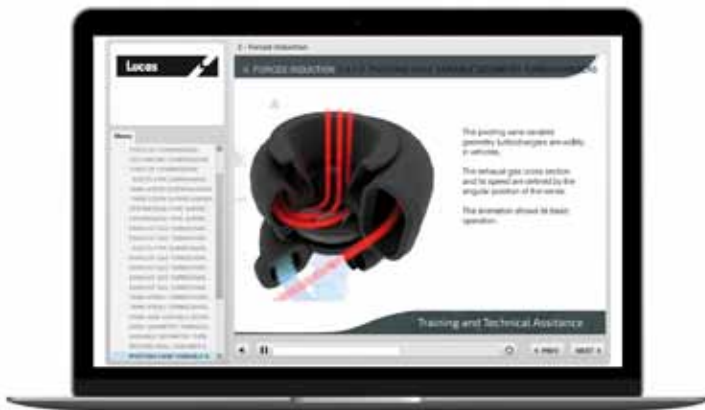
Lucas Academy provides high-quality learning experiences that reflect not only where the industry is today, but where it is going tomorrow.

Our courses have been developed by professional instructors who are experienced in the automotive industry. Their extensive real-world experience and ability to share their knowledge in a structured format assures you of enlightening and productive educational experience.

Our state-of-the-art facilities include fully equipped classrooms for hands-on exercises but we also have portable equipment simulators enabling us to bring many of our courses to your location.

A group of specialist automotive trainers will be in charge of monitoring the student in order to adjust the training to your personal requirements.





3D multimedia videos



Full explanations of the functioning of a component



Detailed high definition pictures



Motion graphics & visual effects



Interactive schemes

We have the latest generation platform in order to assist with online training with the aid of 3D multimedia videos and diagrams. This can be accessed anywhere and at any time around the world.

E-LEARNING CATALOGUE

DAE-01

DIAGNOSIS AND REPAIR OF ELECTRICAL BREAKDOWNS



OBJECTIVES

Diagnose and analyse the breakdowns in the electrical circuit locating them with diagnostic testing equipment.

Basic knowledge of electricity and electromagnetism. How to use the multimeter in the vehicle. Functioning and testing of the sensors and actuators involved in the current systems of engine, comfort and security.

DID-02

DIAGNOSIS OF BOSCH'S COMMON RAIL SYSTEMS



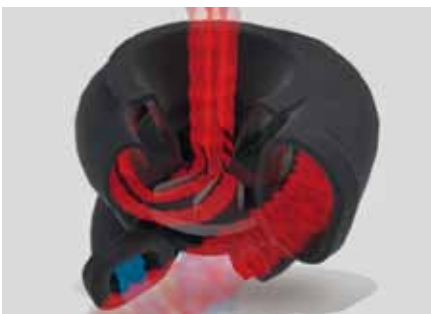
OBJECTIVES

To know in depth BOSCH'S electronic Common Rail injection system. Interpreting the functioning of the systems in order to diagnose any issues using the multimeter, oscilloscope and pressure tester.

Compare the functioning among different generations of injection systems. Differences between pumps, injectors and electrical components. Most common breakdowns among different injection systems. Diagnosis of high and low fuel pressure circuits.

SOB-01

SUPERCHARGER



OBJECTIVES

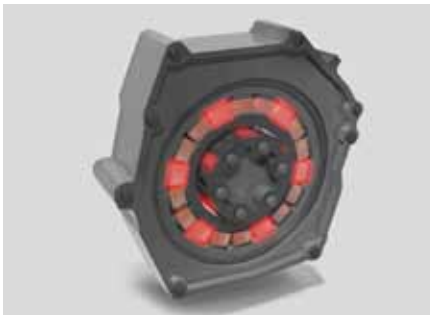
Identify the function of different types of supercharging management and its testing.

Characteristics of different types of supercharging. Functioning of volumetric compressors. Classification of superchargers and turbocharger. Procedure to diagnose and repair the most common breakdowns.

100H DURATION

SHI-01

HYBRID AND ELECTRICAL VEHICLES (PLUG-IN)

**OBJECTIVES**

To understand the functioning, maintenance, basic characteristics and safety measures of a hybrid system.

Characteristics of components in a hybrid system. Location and functioning of the mechanical and electrical components of the system. Diagnosis and repair of the most common breakdowns in the system.

RCA-01

REPAIR AND MAINTENANCE OF AUTOMATIC GEARBOXES

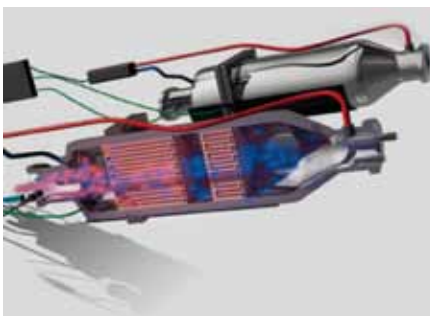
**OBJECTIVES**

Disassembly of a automatic gearbox verifying its functioning and wear of internal parts while the maintenance of the gearbox is carried out.

Internal functioning of automatic gearboxes. Create maintenance procedures for different types of automatic gearboxes. Disassembly and testing of the internal components in a gearbox. Verification of the wear points and the most common breakdowns.

DSA-01

DIAGNOSIS OF ANTI-POLLUTION SYSTEMS

**OBJECTIVES**

To know the elements that make up the various anti-pollution systems, the procedures for diagnosis, maintenance and repair of both diesel and petrol engines.

Reduction methods of anti-pollution gases. Fault Diagnosis of the elements for reducing of polluting gases before the combustion chamber (ERG, mixture control, Lambda Probe, Catalysts, FAP, DPF, SCR). Checking the wear points and most common failures.

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