## What drives you, drives us.

For over 125 years, Bosch innovations have been keeping vehicles on the road and getting people to and from their destinations while improving safety and peace of mind along the way.

Bosch Automotive Aftermarket offers workshops and retailers a comprehensive portfolio of products that is unmatched worldwide:

- ► Efficient diagnostics
- ► Innovative workshop equipment
- ► Quick, reliable delivery
- ► The world's most comprehensive range of spare parts including both new and remanufactured
- ▶ Workshop concepts to meet every requirement
- ► Comprehensive training
- ► Targeted sales and marketing support
- ► A competent service hotline

## **Robert Bosch Limited**

P.O. Box 98 Uxbridge UB9 5HJ

## **Bosch Service Training Centre**

Unit 202, Riverside Way Uxbridge UB8 2YF

www.bosch-workshopworld.co.uk/training







# **Technician Training**

## from the vehicle systems experts

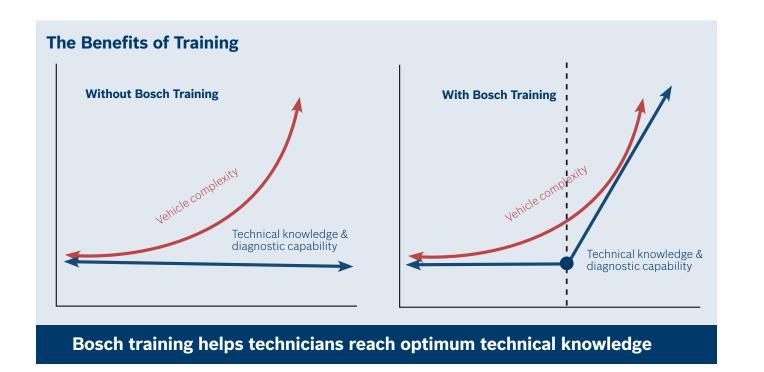
As the world's largest supplier of advanced electronic automotive systems, vehicle manufacturers from around the world rely on Bosch for innovation and technical expertise. You can also benefit from this expertise through the range of training courses offered by Bosch either at our multi-million pound Service Training Centre (STC) in Uxbridge or at one of our many regional training venues. Develop your technical skills through Bosch training to help safeguard your future.





## **Training Trends**

With Bosch as a leading provider of complete automotive system technology, and with close collaboration with Bosch research and development departments, Bosch training in the UK can offer world class automotive technical training programmes utilising the very latest in Bosch test equipment and know how.



## **The Bosch Training Offer**

## Training designed to meet your needs



Bosch offer a range of courses designed to meet the needs of all workshop technicians, whatever their experience and knowledge:

"Learning by doing" is the basic principle of all Bosch training courses. The theory and practice content is specially tailored to the requirements of workshops.

Under the instruction of highly qualified trainers, participants apply the theoretical knowledge which they have acquired on various vehicles, bespoke vehicle system rigs and fault simulation set-ups.

## **Bosch Training Expertise**

Bosch are market leaders in developing new vehicle systems, which provides direct access to the valuable information required for our training courses and market leading range of diagnostic equipment.

Our training courses follow a vehicle systems based approach as opposed to a vehicle specific approach so that the skills learnt can be applied across all makes of vehicles

Participating in Bosch technical training will not only benefit your technicians and other staff, but will provide customers with assurance that your service and repair work is of a high standard.

Class sizes are kept small to ensure that they are interactive and relevant. All course participants are issued with a globally recognised Bosch training certificate.

Our courses include as much visual, audio and practical methods as possible, including videos, graphics and technical diagrams.

In 2014, the average satisfaction rating given by delagates who attended our training was 93%, underlining not just the quality, but the relevance of the courses.



**Bosch Automotive Service Training | 5** 4 | Bosch Automotive Service Training

## Online course Calendar & Prospectus

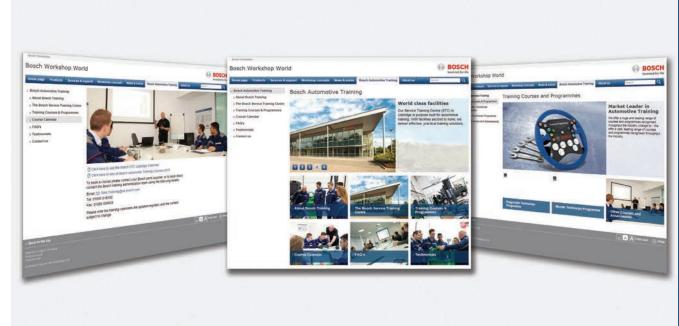
Full details of the training prospectus and a calendar of course dates can be found on our training website pages at www.bosch-workshopworld.co.uk/training.

Technicians can also make a booking enquiry for courses at the Bosch Service

# Training Centre or regional training venues through the website.

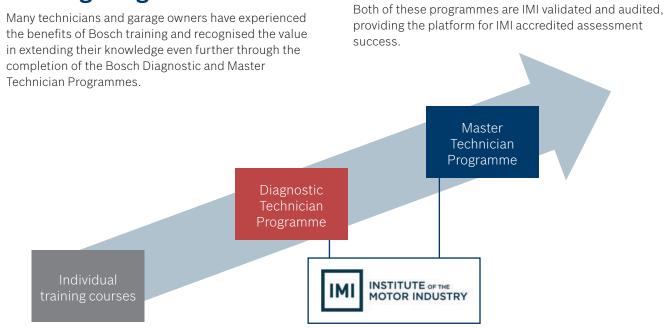
# **The Bosch Service Training Centre**

In 2,000 square metres of space, Bosch's Service Training Centre (STC) offers four dedicated classrooms (limited to a maximum of 14 delegates in each) and four large workshop areas. The design of the new STC follows Bosch's demanding Global Training Centre standards and provides the capacity required for further business expansion and diversification.





## **Training Programmes**





6 | Bosch Automotive Service Training | 7

## **Subject Categories**

#### **Electrical & Electronic Systems**

From the essential introduction course on automotive electrics, through to training on advanced electronics and microprocessor technology, these courses will enable the technician to understand the workings of electronic systems and diagnose faults correctly and swiftly, using multi-meters, oscilloscopes and other electronic diagnostic equipment.

#### **Test & Diagnostics**

To diagnose and repair complex vehicle systems, technicians require an advanced knowledge of diagnostic procedures in conjunction with vehicle system knowledge. These courses enable the technician to optimise use of their test equipment, covering techniques using an oscilloscope and understanding serial diagnostic data.

### **Gasoline Systems**

Modern engines produce more power with less fuel and emit lower exhaust emissions than ever before. In parallel, the level of know-how required to work on engine management systems has increased. Our training courses provide indispensible knowledge on the interaction of the individual components and their diagnosis, covering standard spark and injection systems through to advanced engine management, direct petrol injection and exhaust gas analysis.

## **Hybrid and Electric Vehicles**

With hybrid and electric vehicles becoming more popular, our courses provide the knowledge and skills that are essential to achieving the safe diagnosis and repair of high voltage vehicle systems and components. Technicians attending these training courses will gain specialist instruction on a complex and interesting, but potentially hazardous technology.

#### **Workshop Test Equipment Training**

As vehicle technology has advanced, so has the equipment necessary to diagnose, service and repair motor vehicles. The Bosch equipment training courses are designed to familiarise technicians with every aspect of the Bosch equipment that they have purchased and enable them to correctly use them for effective vehicle diagnosis and repair.

#### **Diesel Systems**

Diesel car sales now account for approx 50% of new car registrations. The correct diagnosis and repair of advanced diesel and emission control systems is an essential requirement – our training provides technicians with the specialist skills. The courses cover the important fundamentals of diesel injectior as well as training on the latest electronic diesel control systems such as common rail.

#### **Chassis and Braking Systems**

Chassis and braking control systems on motor vehicles have advanced considerably over the last few years. By attending our training courses, you will acquire expertise in the targeted fault finding and analysis of hydraulic systems through to the latest generation of ESP and adaptive braking systems.

#### **Body and Comfort Systems**

A large proportion of a modern vehicle's technology is devoted to body and comfort electronics. This includes the control unit network systems, as well as the sub-systems that are connected to them. These courses provide expert understanding and practical instruction on a wide range of technologies such as air conditioning, supplementary restraint systems, body control systems, CAN and multiplexed networks.

#### **Commercial Skills**

A successful workshop requires personnel who are skilled in disciplines and procedures that go beyond just a technical focus. Modern expectations of customer care have increased over the years and with more customer choice it is important to retain your customer base. Attending courses that cover customer handling skills and workshop management will enhance the operation of your business.

#### **MOT Training**

Our MOT training programme encompasses training courses covering requirements for technicians at all stages in their pursuit to become an MOT tester, including existing testers who wish to maintain their status. The programme helps to provide technicians with the skills they need, not only to achieve or maintain tester status but also to help them in their ongoing tester careers.

## **Course Summary**

			Foundation	Intermediate	Advanced	Bosch Diagnostic Tec	Bosch Master Techni
Course Code	Course Title	Duration (days)	Level			Progra	amme
Electrical & Ele							
VSE1	Essential Test Procedures	2	1			1	
VSE7	Automotive Electronics: Vehicle Sensors & Components	3			✓		✓
VSE11	Automotive Electronics Advanced: ECU Control & Microelectronics	3			✓		✓
VSE32	Battery Management Systems and Start/Stop Technology	2		1			
Diesel Systems							
VSD12	Essential Diesel Knowledge	2		1		1	
VSD15	Common-Rail System Diagnosis	2		1		1	
VSD16	Unit Injector System Diagnosis	1		1		1	
VSD23	Advanced Diesel System Controls & Emissions	2			✓		1
Test & Diagnos	is						
VSTD9	Oscilloscope Operation & Signal Test Methods	2	1			1	
VSTD33.1	Understanding Diagnostic Fault Codes & Live Data	1	1				
VSTD37	Introduction to Passthru	0.5	1				
Chassis & Brak	ing Systems						
VSC6	Braking & Chassis Systems, ABS & ESP	2		1		1	
VSC13	Advanced Braking Control Systems	2			1		1
VSC31	Tyre Technology & Tyre Pressure Monitoring Systems	1	1				
VSC28	Steering Geometry and Four Wheel Alignment	1		1		1	
Gasoline Syste	ms						
VSG2	Engine Management: Spark Ignition & Diagnosis	2		1		1	
VSG5	Engine Management: Diagnosis of Universal Components	2		/		1	
VSG11	Gasoline Direct Injection System Diagnosis	2		/		1	
VSG17	Gasoline Engine Emissions Analysis & OBD	2			/		/
VSG14	Gasoline Engine Management: Advanced System Controls	3			/		/
Body & Comfor	rt Systems						
VSB26	Automotive Air Conditioning Systems Diagnosis	2		1		1	
VSB8	Airbag & Supplementary Safety Systems	2		/		1	
VSB10	Body Control Systems, CAN & Multiplexed Networks	2			1		
Hybrid & Electi	ric Vehicles						
VSH24.1	Hybrid & Electric Vehicle - Routine Maintenance (L2 QCF)	2		/		1	
VSH25	Hybrid & Electric Vehicle - Repair or Replace HV Components (L3 QCF)	2			1		/
Commercial Sk	ills						
CS1	Customer Care	1		1		1	
Workshop Test	Equipment Training						
WTE1	Operation of Bosch KTS 5xx/6xx Diagnostic Testers (ESI 2.0)	1	1				
WTE4	Operation of the Bosch FSA 500 Oscilloscope	1	/				
MOT Training							
LVINT	Light Vehicle Inspection Training	2	/				
ATALVIN	IMI Accreditation - Light Vehicle Inspection Technician	1	1				
MOT1	MOT Tester Training (Class 4 & 7)	5	1				
MOT2	MOT Tester CPD (Class 4 & 7)	0.5	1				
Assessments							
AC1RHA	Automotive Air Conditioning Refrigerant Handling Certification (L3 QCF)	1	1				
ATABDT	IMI Accreditation - Bosch Diagnostic Technician	1				1	
ATABMT	IMI Accreditation - Bosch Master Technician	1		•	/	•	/
ATALVIN	IMI Accreditation - Light Vehicle Inspection Technician	1	1		·		·
		•					