WABCO VEHICLE CONTROL SYSTEMS
is one of the world’s leading providers of electronic braking, stability, suspension and transmission automation systems for heavy duty commercial vehicles.

WABCO’S CUSTOMERS
include the world’s leading commercial truck, trailer and bus manufacturers in every region of the world. We help improve the performance, safety, efficiency and service life of their vehicles while reducing overall vehicle operating costs.

WABCO’S AFTERMARKET TEAM
supports fleet and truck owners over the lifetime of their vehicles through a range of products and services, a global network of distributors and service partners, and state-of-the-art training centres.

THE WABCO ACADEMY
is a centre of excellence for learning, primarily, for the Commercial Vehicle industry based on proven customer needs delivering a specialized range of learning opportunities and training experience through a variety of delivery platforms. If you have special request on training, please contact : micky.mathew@wabco-auto.com for Middle East, ahmed.seif@wabco-auto.com for East Africa. Any course can also be held offsite depending on the location, facilities available and the number of attendees.

Technical Training P. 3-9
WABCO software and hardware P. 10

E Learning P. 11-12

Useful Information P. 15-17
Technical Training

Basic brake system-truck
Basic brake system-trailer
ABS / ASR Truck
ABS Trailer
T EBS E / RSS
Air Suspension
EBS Truck / Bus
ECAS Bus
MTS
**Basic brake system-truck**

**Objective:**
To understand the general layout of the braking system on trucks for service and diagnostic purposes.

**Study of the different brakes**

**Study of the truck different systems:**
1) Introduction of WABCO components
   - Compressor
   - Air dryer
   - 4 circuit protection value
   - Parking brake
   - Service Brake
   - Trailer control
   - Brake Chambers
2) Installation and maintenance

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**Basic brake system-trailer**

**Objective:**
To understand the braking systems on a trailer for service and diagnostic purposes.

**Deepen study on systems studied in part one**

**Study of the trailer:**
1) Introduction of WABCO components
   - Coupling heads
   - Load sensing valve for Mechanical and Air suspension
   - Adjustment of LSV
   - Relay emergency valve
   - Service & Parking functions
   - Brake Chambers
2) Installation and maintenance

**Introduction on air suspension**
   - Lift axle valve
   - Leveling valve
   - Rotary slide valve

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To get more information, please contact us per email: micky.mathew@wabco-auto.com for Middle East
ahmed.seif@wabco-auto.com for East Africa
ABS / ASR Truck

Objective:
For all persons confronted to braking problems in order to understand the ABS and ASR systems on trucks. For service and diagnostic purposes

ABS characteristics

Study of the truck:
1) Scheme
2) Components and functions
3) Installation hints and parameter settings
4) Service
5) Diagnostic

ABS Trailer

Objective:
For all persons confronted to braking problems in order to understand the ABS systems on trailers. For service and diagnostic purposes

ABS characteristics

Study of the trailer:
1) Scheme
2) Components and functions
3) Installation hints and parameter settings
4) Service
5) Diagnostic

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Study of the different EBS components

General T EBS features:
- TEBS E basics
- Roll over stability support
- lift axle control
- Brake parameter setting using brake calculation
- Parameter setting review through EBS software
- End of line test

Auxiliary functions:
- Trailer Intelligent Program
- ISS, ODR, SmartBoard, axle lifting …
- GIO functions
- TailGuard etc…

For the ones who have performed an EBS E training already, you can ask for an update on EBS E2 (200 142 108 0)

Air suspension

Objective:
For all technicians in order to know the pneumatic suspension systems and the lift axles systems.

Air suspension components

Drawing study (trailer)

Study of systems that belong to the air suspension (setting, maintenance):
- Charging valve
- Levelling valve
- Lift axle valve - (pneumatic/electric)
- Pressure limiting valve
- Rotary Slide valve
WABCO’s Intelligent Trailer Program offers a range of 40 innovative trailer functions that increase operational effectiveness, safety and driver comfort.

OptiFlow™ Tail is an easy-to-install aerodynamic system for the rear of the trailer, designed to withstand daily operation while delivering up to 1.1l / 100 km fuel savings at highway speed.

Discover how the Intelligent Trailer Program can help you to decrease the operational cost of your trailers, while increasing efficiency and safety.

For further information visit
www.intelligenttrailer.com
EBS Bus

General EBS features
EBS systems – history and properties
EBS brake management
EBS system functions
CAN data bus and CAN data messages
ESC
EBS and ESC components
Diagnosis – philosophy
Diagnostic hardware and software
Diagnostic software EBS EURO

EBS Truck / B

Program

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Truck

1) Scheme
2) Components and functions
   ECU
   Foot brake
   Axle modulator
   Proportional relay valve
   Redundancy valve
   Trailer control valve
3) Service
4) Diagnostics
ECAS Bus
(Electronically Controlled Air Suspension)

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Conventional air suspension (CAS)
Difference ECAS – CAS
Definitions of levels and features
Basic ECAS control circuit
ECAS basic system description
ECAS sensors
ECAS ECU “CAN II”
ECAS solenoid valves
ECAS systems
ECAS CAN II – bus scheme
ECAS warning lamps
Fault reaction
ECAS diagnosis – red line: ECAS CAN II
ECAS CAN II bus parameters

MTS
(Modular Door Control)

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History of door control
advantages of MTS
MTS features
MTS - system structure
Function of the door control valve
MTS safety concept
ECU addressing
Pinning of MTS ECU (examples)
Component overview
Teach-in procedure
MTS diagnosis
OUR SOLUTIONS FOR WORKSHOPS: MAKE YOUR WORKSHOP SMARTER

**AIR PRESSURE TEST CASE - 435 002 007 0**
The WABCO Air Pressure Test Case is the perfect workshop tool to measure the pressure in a vehicle’s braking and suspension system. It allows you to perform official vehicle inspections to the highest legal standards. With a wide range of connection options, it enables easy testing of all commercial vehicles.

**AGRICULTURE AIR PRESSURE TEST CASE - 435 002 011 0**
The WABCO Air Pressure Test Case is the perfect workshop tool to measure the pressure in a vehicle’s braking and suspension system. It allows you to perform official vehicle inspections to the highest legal standards. With a wide range of connection options, it enables easy testing of all commercial vehicles.

**ULTRASONIC LEAKAGE FINDER - 400 606 410 0**
The WABCO Ultrasonic Leakage Finder is a convenient workshop tool to detect air leakages. The device indicates the presence and size of a leak using both audible and visual signals. Using the Ultrasonic Leakage Finder saves time and prevents potential customer claims.

**ULTRASONIC SEAL LEAKAGE DETECTOR - 452 600 100 0**
The WABCO Ultrasonic Seal Leakage Detector is a practical ultrasonic tool used to detect leakage in door and window seals. It detects both the location and size of leaks.

**BRAKE AND SUSPENSION TEST CASE - 453 197 003 0**
The WABCO Brake and Suspension Test Case is the perfect tool to test and repair brake components. With this tool, you are able to perform vehicle inspections, post-repair check-ups, brake simulations and pressure measurement of air brakes and suspension systems. The Brake and Suspension Test Case offers you all these functions in a mobile trolley that can be stored efficiently or used on any workbench.

**W.EASY ®**
W.EASY diagnostics solutions are based on modules and, from the entry-level package through to a complete solution, can be adapted to the specific requirements of your workshop. In this way each customer is provided with his individual W.EASY diagnostics solution.

**BIO-CLEANING SYSTEM SET - 300 100 007 0**
The WABCO Bio-Cleaning System Set is the ideal workshop accessory for fast-cleaning of used vehicle parts and workshop tools. The liquid cleaning products provided by WABCO feature natural components and are harmless to humans and the environment. This makes both cleaning and recycling cheaper and more convenient.
WABCO E-Learning

E-Learning or Online Training means computer-aided learning on an E-Learning Portal using a computer with Internet access. WABCO offers this new type of training as another online service for its customers. The content of the course is divided into modules supported by audio-visual means. These modules often consist of a number of learning units and usually contain a qualification test.

E-Learning can increase knowledge and help to acquire abilities needed for a specific purpose. Your training can work flexibly according to your own schedule and at your own pace, possibly at work, at home or even making use of a so called «Internet Cafe».

The courses on our systems are always up to date with the latest developments and they communicate the complexities of the technology in an interesting and vivid manner and are precisely tailored for your needs.

Welcome to WABCO E-Learning and good luck!

http://wbt.wabco.info

To get more information, please contact us per email: micky.mathew@wabco-auto.com for Middle East
ahmed.seif@wabco-auto.com for East Africa
Useful Information

Course fees
PIN
Payment conditions
Training subscription
Map to WABCO training room
Become a service partner
Course fees

80 € for Half Day
9 H - 14 H 30

100 € for the whole Day
9 H - 17 H 00

Course fees include:
Course material
Certification and License Letter
(On successful completion of the course including the final exam and continuous assessment)
Lunch

PIN

The acquisition of PIN allows the user not only to diagnose but also to the change of parameters, which have an important functional impact. However, driving safety and vehicle operation may be disrupted if the code is used by an untrained person. Therefore, before publishing the PIN, WABCO as the system and the manufacturer’s diagnostic program, requires that the user attends a training program. The PIN is assigned to a specific user, this user has not the right to give this code to another person who did not follow the same training. The user acknowledges and accepts that its name is stored in a database as well as his personal statement. Traceability is possible together with the statement submitted for each user during modification of the ECU.

Payment conditions

Advance / Full payments before training through bank transfer or wire transfer, bank details will be given on the invoice.

All mentioned prices exclude VAT
Training subscription

Mr. / Mrs: __________________________________________
Company: __________________________________________
Customer code: _____________________________________
Address: __________________________________________

(or stamp)

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We commit to pay the training fee of: _______________________

Signature: _______________________

To be sent by email to: micky.mathew@wabco.com for Middle East and ahmed.seif@wabco-auto.com for East Africa
Map to WABCO training centre

To get more information, please contact us per email: micky.mathew@wabco-auto.com for Middle East
ahmed.seif@wabco-auto.com for East Africa
Become a Service Partner

WABCO Service Partners provides you with a global network of expert support. WABCO’s Service Partner network backs WABCO’s world-renowned electronic braking, vehicle control, suspension and drive with a powerful new concept for the global aftermarket – ensuring that regardless of what you need, a WABCO expert is where you are.

WABCO Service Partners are certified, onsite experts fully trained equipped to service all WABCO systems and products.

HOW TO BECOME A SERVICE PARTNER

As a WABCO Service Partner, you become a member of our international network of workshops that has earned an industry-leading reputation for offering optimum product support and service. We ensure that you and your staff are ideally equipped to provide world-class product support and service to a broad range of commercial vehicles. WABCO offers professional training, diagnostic software and hardware, and onsite support – among other tools and knowhow. It’s everything your workshop needs to satisfy continued customer demands in our innovative and rapidly evolving industry.

TO GET MORE DETAILS, PLEASE CONTACT :

- Ziad Jadaa: Team Leader - ME
  Ziad.Jadaa@wabco-auto.com
  Mobile: +971 50 454 4084

- Lubomir Spacek - Team Leader East Africa
  lubomir.spacek@wabco-auto.com
  Mobile: +971 566 686 637

To get more information, please contact us per email: micky.mathew@wabco-auto.com for Middle East
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ahmed.seif@wabco-auto.com for East Africa
Notes
WABCO Academy

WABCO Academy is one of the leading providers of training courses and continuing education for over 40 years.

The philosophy of WABCO Academy is as simple as it is effective: Instead of dry theory, we communicate practical knowledge and know-how that our students can put to use immediately. More than 190,000 customers from 45 countries have successfully completed training courses in these four areas. With 18 training centres worldwide, as well as offerings in just about every language, we serve the needs of international customers.