TRAINING

2011/2012 PROGRAM

MIDDLE EAST

WABCO University

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 University 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
Any course can also be held offsite depending on the location, facilities available and the number of attendees.

SUMMARY

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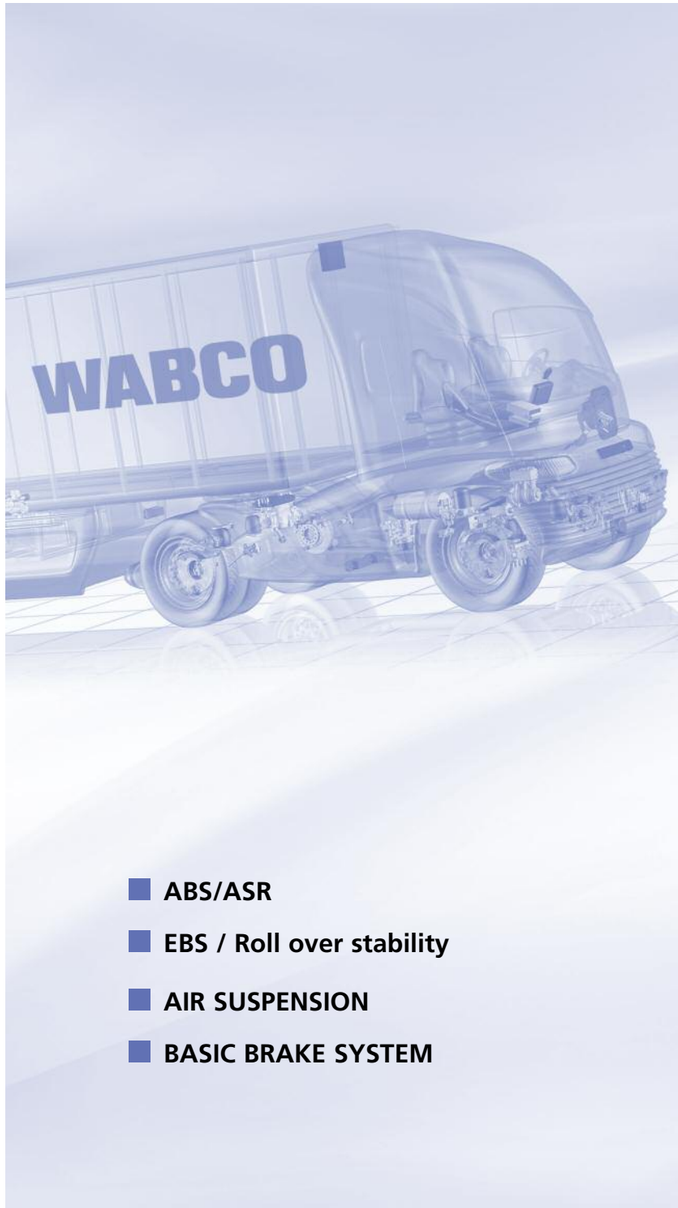
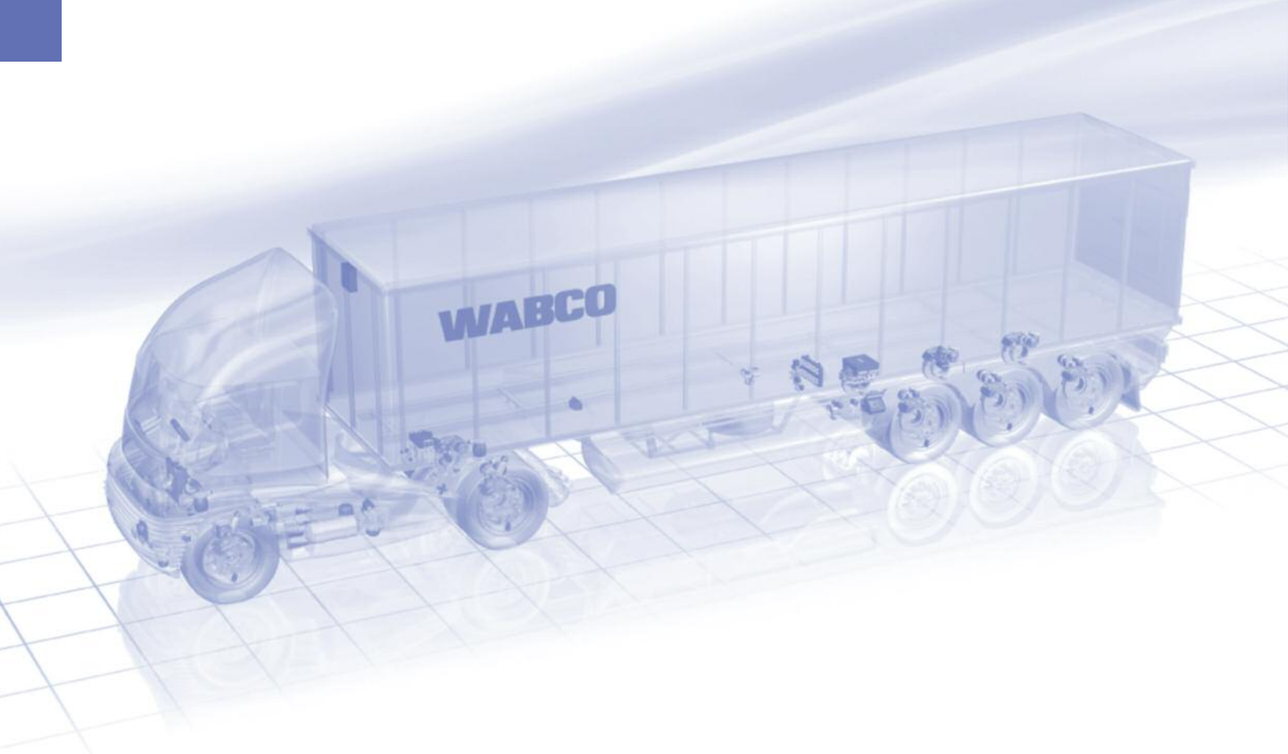


- ABS/ASR
- EBS / Roll over stability
- AIR SUSPENSION
- BASIC BRAKE SYSTEM

TECHNICAL TRAINING



ABS / ASR TRUCK

200 142 050 0

***OBJECTIVE**: For all persons confronted to braking problems in order to understand the ABS and ASR systems on trucks.*

P R O G R A M

ABS characteristics

Study of the truck:

- Scheme
- Electronic Command Unit
- Sensors and wheels
- Electro pneumatic valves
- Diagnostic

PRICE: 80 EURO

DURATION: HALF DAY

ABS TRAILER

200 142 051 0

***OBJECTIVE**: For all persons confronted to braking problems in order to understand the ABS and ASR systems on trailers.*

P R O G R A M

ABS characteristics

Study of the trailer:

- Configuration: 2S/2M…4S/3M
- Components
- VCS and VCS II
- Installation hints
- Diagnostic

PRICE: 80 EURO

DURATION: HALF DAY

EBS / RSS

200 142 102 0

***OBJECTIVE**: For all persons confronted to braking problems in order to understand the EBS functioning.*

P R O G R A M

Introduction:

Presentation, main assets and functioning

Study of the different EBS components

TRUCK

- Electronic
- Foot brake
- Axle modulator
- Proportional relay valve
- Redundancy valve
- Trailer control valve
- Diagnostics

TRAILER

- Trailer axle modulator
- Emergency relay valve
- Load sensor
- Roll over stability
- Synchronized braking
- Installation hints
- Diagnostics

Evolutions:

- From the C to E generation
- Repair kit

Auxiliary functions:

- ISS, ODR, SmartBoard, axle lifting

Diagnostic and setting on training case

PRICE: 100 EURO

DURATION: 1 DAY

1 BASIC BRAKE SYSTEM

200 142 000 0

***OBJECTIVE**: For all technicians in order to get a diagnostic method to perform any work on braking.*

P R O G R A M

- **Study of the different brakes**
- **Study of the different systems:**
  - Service Brake
  - Emergency brake
  - Parking brake
  - Emergency function on trailer vehicle
- **Study of the air dryer**

PRICE: 100 EURO

DURATION: 1 DAY

2 BASIC BRAKE SYSTEM

200 142 000 0

***OBJECTIVE**: After 1st part - For all technicians in order to get a diagnostic method to perform any work on braking.*

P R O G R A M

- **Deepen study on systems studied in part one**
- **Study of the trailer:**
  - Pressure regulator
  - Hand brake valve
  - Foot brake valve
  - Trailer control valve
  - Relay emergency valve
  - Braking corrector
- **Study of the air dryer**
- **Introduction on air suspension systems and electronic systems (ABS, EBS…)**

PRICE: 100 EURO

DURATION: 1 DAY

AIR SUSPENSION

200 142 170 0

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

P R O G R A M

- **Air suspension assets**
- **Drawing study** (basic, truck, trailer)
- **Study of systems that belong to the air suspension** (role, running, setting, maintenance)
  - Levelling valve
  - Lift axle valve - (pneumatic/electric)
  - TASC-Electronic
  - Rotary Slide valve
- **Axle lifting** (principle, legislation, different settings and drawings)
- **Braking** (Study of LSV)

PRICE: 80 EURO

DURATION: HALF DAY

WABCO SOFTWARE AND HARDWARE

WABCO System Diagnostics (SD) has continued to grow with more than 35 different software options now available.
The access to System Diagnostics software has also changed with the launch of "myWABCO" which is the new personal "dashboard" of WABCO's online services:
https://www.wabco-auto.com/en/mywabco/welcome

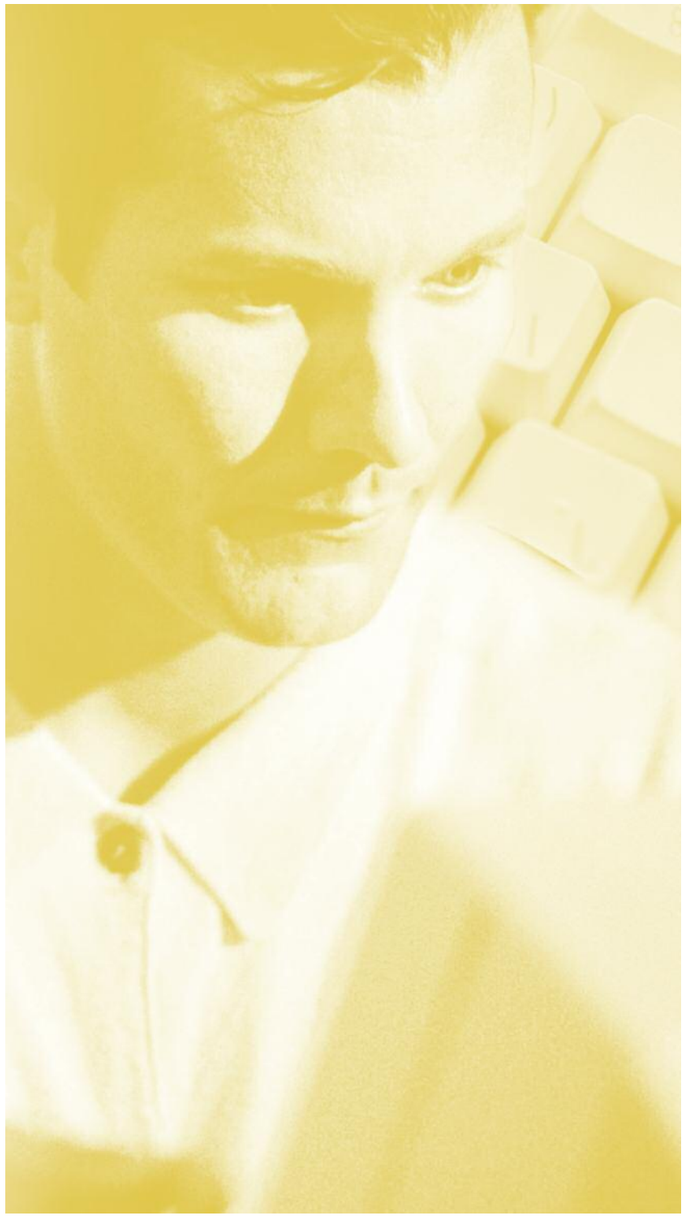
Alongside our System Diagnostics software, we also offer hardware accessory cases tailored to your needs.

Diagnostic case details are as follows:
- Full diagnostic case (446 301 020 0)
- Trailer case (446 301 023 0)
- Truck case (446 301 025 0)
- Bus case (446 301 026 0)

W.EASY, the world's first multi-brand diagnostic system with integrated WABCO System Diagnostics

- Innovative, transparent and efficient diagnostics for trucks, trailers and light commercial vehicles
- Customised packages of hardware, software, hotlines and training
- Quick, personal and comprehensive after-sales service

Isn't it time you took a lead? Find out more about WABCOWÜRTH at **www.wabcowuerth.com**



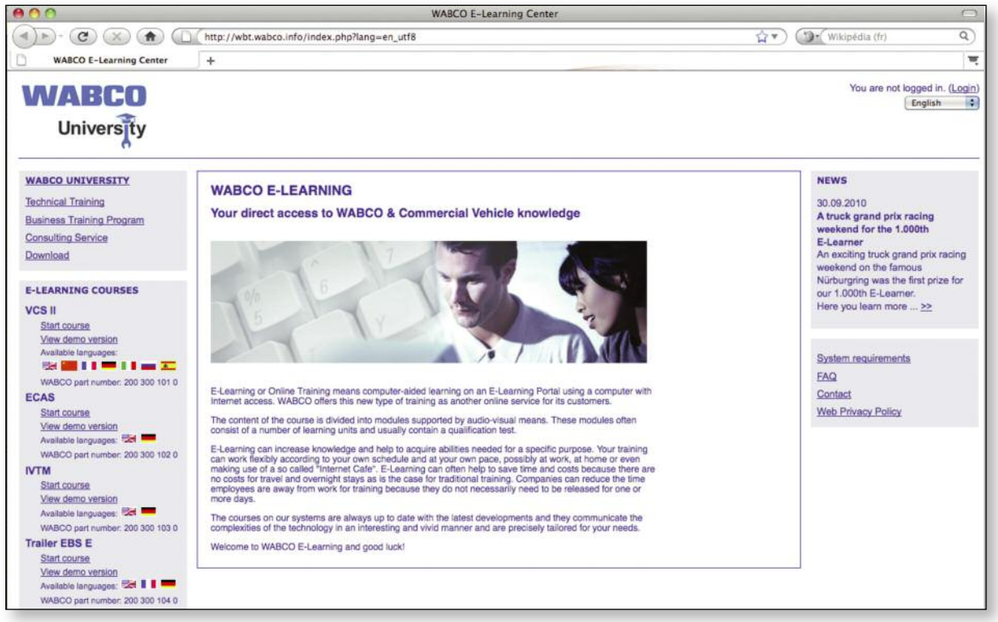
E LEARNING

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.



- VCS II
- ECAS
- IVTM
- Trailer EBS E
- Trailer EBS E1 to E2
- Disc Brake
- Basic knowledge braking systems
- WABCO TrailerGUARD

Welcome to WABCO E-Learning and good luck!

http://wbt.wabco.info

USEFUL INFORMATION

COURSE FEES 2011

- **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 duringmodification of the ECU.

PAYMENT CONDITIONS

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

TRAINING SUBSRIPTION

M. / Mrs: _____

Company: _____

Customer code: _____

Address: _____

_____

(or stamp)

Date	Participants Name	Subject

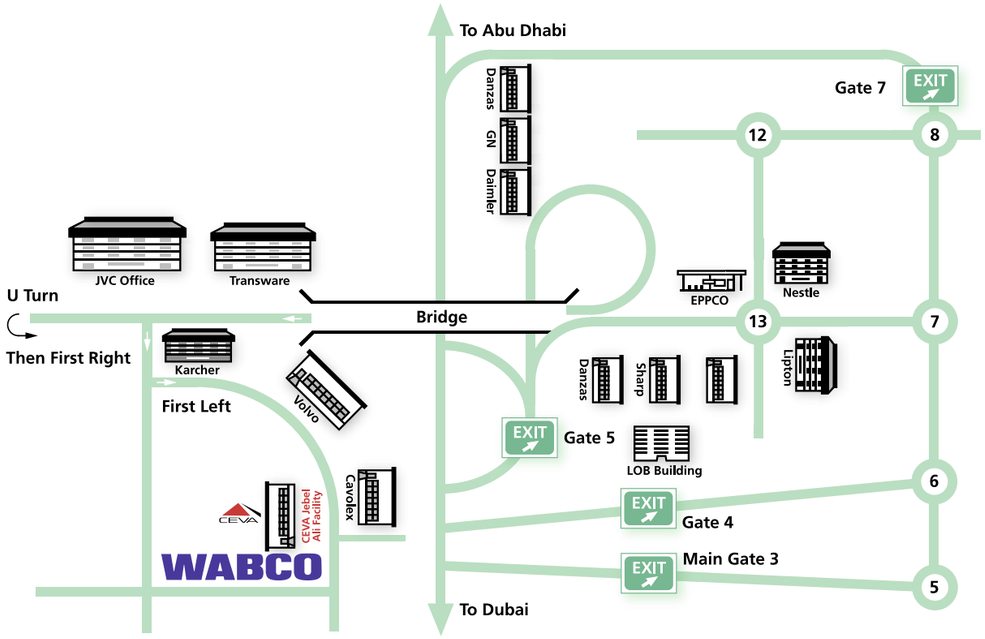
We commit to pay the training fee of: _____

Signature:

To be sent per email to:
micky.mathew@wabco-auto.com

WABCO University

MAP TO WABCO TRAINING ROOM



WABCO Middle-East and Africa FZCO.
Vehicle Control Systems
JA 416 - Distribution Center Dubai,
P.O.Box 20336,
JAFZA - DUBAI.
UAE.

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.

WABCO Service Partners Offer

- Expert consultation by professionals who are trained and certified by WABCO
- Advanced diagnostic systems covering all WABCO electronic products and systems
- Immediate and efficient warranty assessment
- Capabilities to increase the safety and cost effectiveness of vehicles through customized conversion and retrofitting services
- Inventory of spare and replacement par

To get more details, please contact:
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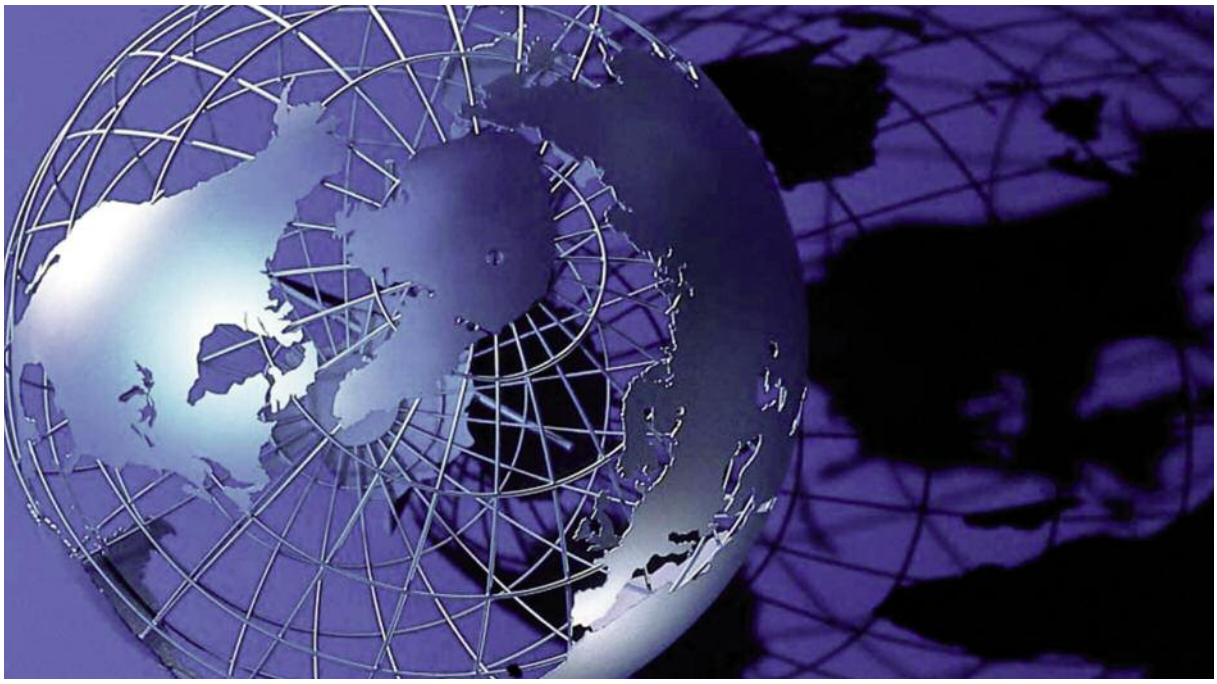
Mobile: +971504544084
Or Micky Mathew: Technical and sales representative - ME
Mobile: +971504621686



WABCO (NYSE: WBC) is a leading supplier of safety and control systems for commercial vehicles. For over 140 years, WABCO has pioneered breakthrough electronic, mechanical and mechatronic technologies for braking, stability and transmission automation systems supplied to the world's leading commercial truck, trailer and bus manufacturers. With sales of $ 2.2 billion in 2010, WABCO is headquartered in Brussels, Belgium.

For more information, visit **www.wabco-auto.com**

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