



[pro]Academy

MEA 2023

Product Training





ZF [pro]Academy

Training courses

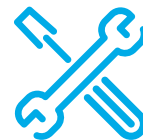
Professionals keep their finger on the pulse

With each new generation of vehicles and products, new technologies are used - today, changes are happening faster and more radically than ever. ZF [pro]Academy ensures that you, workshop or educational institution, have your finger on the pulse. Our classroom and eLearning courses will give you exactly the knowledge you need as a professional today and tomorrow: structured, practical and prepared so that you can immediately benefit from it in your daily activities. The ZF [pro]Academy draws on many years of experience and extensive know-how as a development partner for numerous automotive companies.

Training options

ZF [pro]Academy offers training in product training focused on relevant industry know-how.

We are constantly improving our products and skills. With this knowledge, we will be happy to help you improve your processes and productivity, and help you improve your bottom line on a regular basis.



Product Training



More information about Academy trainings:

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for Middle East

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for East Africa

praveen.vijaykrishnan@zf.com

for ZF gearbox trainings in Middle East

www.wabco-academy.com



Product Training

Product Training

Basic Brake System-Truck

Basic Brake System-Trailer

ABS / ASR Truck

ABS Trailer

T EBS E / RSS

Air suspension

ECAS Bus (Electronically Controlled Air Suspension)

MTS (Modular Door Control)

AMT (Automated manual Transmission)

E-Learning Basic Brake

E-Learning VCS II - Trailer ABS

E-Learning ECAS

E-Learning Trailer EBS E0

E-Learning OptiTire™

E-Learning E-APU Exchange (APS)

E-Learning OnLane Installation

Useful Information

Become a Service Partner

Course fees

Course fees include

PIN

Payment conditions

Training subscription

Map to ZF training centre.



Product Training

Product Training - What is it about?



The ever faster technological development presents companies with the great challenge of constantly bringing their existing or new employees up to date with the latest knowledge. The steadily growing complexity of systems in commercial vehicles requires a new approach to service. Today, much more than in the past, testing and adjustment work requires excellent system knowledge. To this end, we have a wide range of interesting offers with which we have designed our training programme.

Vehicle owners expect their workshops to provide them with a high level of expertise in consulting, testing and adjustment work as well as in rectifying defects. The success and competitiveness of your company are essentially based on the qualification of your employees. Expand the know-how of your specialists by training with the The ZF [pro]Academy.

Our face-to-face training courses offer intensive learning content with a lot of background knowledge and a high practical component. We also offer various digital learning formats to complement our classroom training.

E-Learning

A E-learning is the easiest way to use the knowledge and services of the The ZF [pro]Academy. All you need is a computer/tablet and Internet access. Wherever you are and whenever you have time, you can register online and access The ZF [pro]Academy training courses. The ZF [pro]Academy E-Learning enables efficient learning and helps to save time and money. Even complex content is presented in an easily comprehensible manner using sound and images. Animations and video make learning diversified and interesting. Tasks, questions and a final test ensure successful learning. The courses are available in various languages. For some of our e-learning programmes you will receive a PIN (Personal Identification Number) after successful completion of the course.

E-Learning



- Book E-Learning via our web page: www.wabco-academy.com
- Click on "Book your training", select your country and the desired subject,



You will receive a list of training available for the subject of your choice.

- Click on the title of the training to register for the training.

Select Training Session

Title	Language	From	To	Available	City	Country	Price	Info	Register Here
Automatic Temperature Control (ATC) in Buses English e-Learning		01-jan-2022	31-dic-2022	999	e-Learning	United Kingdom	195.00 GBP		>

- Enter the participant and company information.

CONTACT DETAILS

Please provide the following information. Required fields are marked with *

* Company

* Street / Number

* ZIP

* First name contact person

Salutation

* E-Mail

☐ I will attend the training

* City

* Country

-- Please Choose a Country --

* Last name contact person

* Phone

Job Title

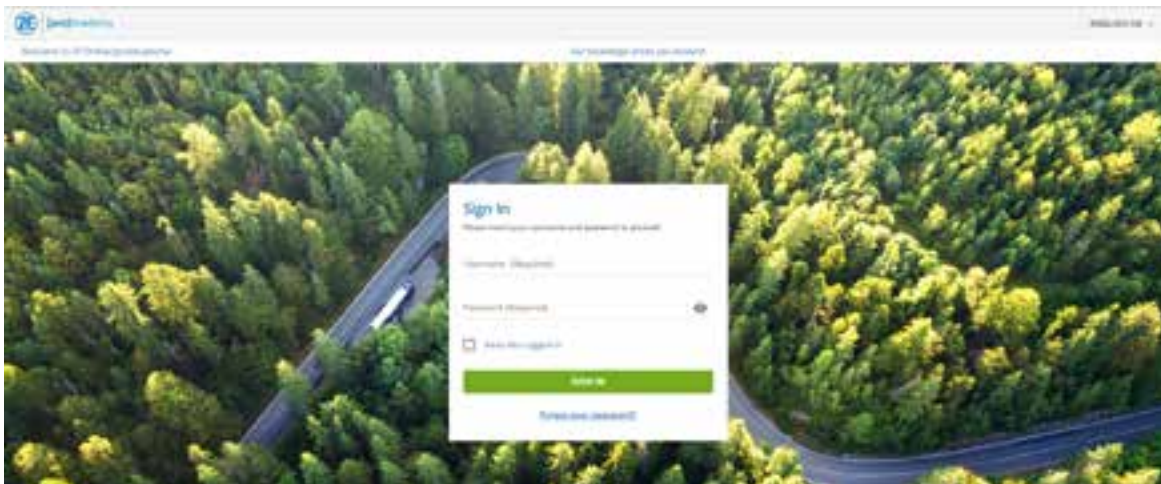
Birth Date

Add a participant

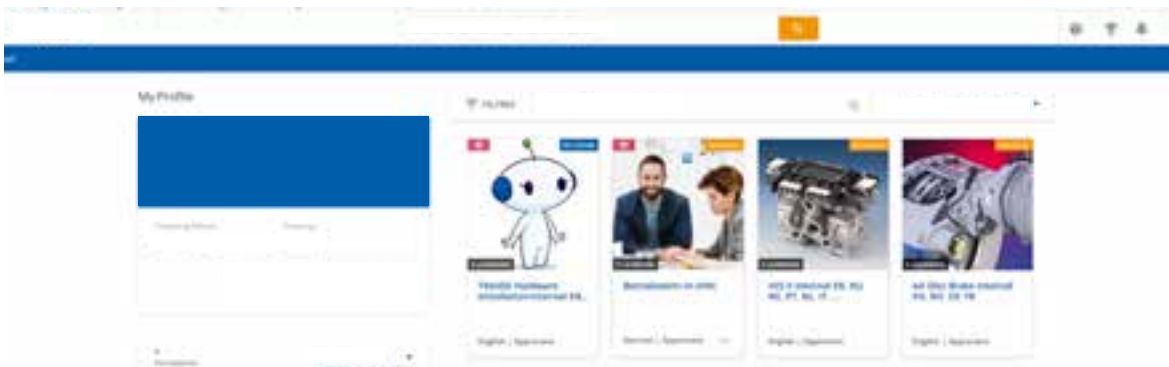
Review And Finish Registration



- You will receive an e-mail within 24 hours for the confirmation of your booking, with the link, your username and the start-up password. The invoice will be sent to you by mail
- Log in with your username and your startup password.



- On the platform, you can see all the E-learning courses you have booked.





BASIC AIR BRAKE - TRUCK

Objective :

- To understand the general layout of the the braking system on trucks for serviceand diagnostic purposes.

Study of the different brakes

Study of the truck different systems :

1. Introduction of WABCO components

- Compressor
- Air dryer
- 4 Circuit protection valve
- Parking brake
- Service brake
- Trailer control
- Brake chambers

2. Installation and maintenance



200 124 000 0



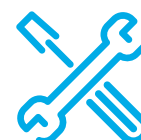
Duration :
1 day

Price :
100 €

To get more information, please
contact us per email:
micky.mathew@zf.com
for Middle East
ahmed.seif@zf.com
for East Africa



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
- Trailer control
- Brake Chambers

2. Installation and maintenance

Deepen study on systems studied in part one

- Lift axle valve
- Leveling valve



200 142 000 0



Duration :
1 day

Price :
100 €

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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. Diagnostics

200 142 050 0



Duration :
1 day

Price :
100 €

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ABS TRAILER



Objective :

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



Deepen study on systems studied in part one

1. Scheme
2. Components and functions
3. Installation hints and parameter settings
4. Service
5. Diagnostics

200 142 051 0



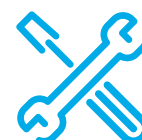
Duration :
5 h

Price :
80 €

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T EBS E / RSS



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 ...

Hint :

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

200 142 101 0



Duration :
1 day

Price :
100 €

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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

200 142 170 0



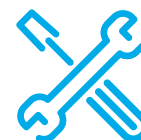
Duration :
5 h

Price :
80 €

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for East Africa



EBS TRUCK OR BUS



Truck

1. Scheme

2. Components and functions

- ECU
- Foot brake
- Axle modulator
- Proportional relay valve
- Redundancy valve
- Trailer control valve
-

3. Service

4. Diagnostics

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

200 142 105 0



Duration :
1 day

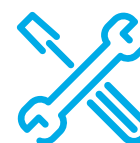
Price :
100 €

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ECAS BUS

(ELECTRONICALLY CONTROLLED AIR SUSPENSION)



Truck

- 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

200 142 155 0



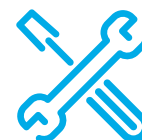
Duration :
1 day

Price :
100 €

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for East Africa



MTS (MODULAR DOOR CONTROL)



Bus

- 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



200 142 201 0



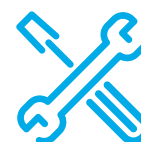
Duration :
5 h

Price :
80 €

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AMT (AUTOMATED MANUAL TRANSMISSION)



Objective :

- Learn about disassembly and assembly of the gear changing unit and the overhaul of the Gear changing system on the automated manual
- Does not include the repair of the gearbox itself



200 124 610 0



Duration :
5 h

Price :
80 €

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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 Agriculture Air Pressure Test Case is a toolkit designed to test compressed air procurement systems in tractors, or the air braking systems in agricultural and forestry trailers. If you own a larger fleet of agricultural vehicles, or have a workshop that repairs, tests or retrofits their compressed air systems, this test kit will be a valuable addition to your toolset.



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.



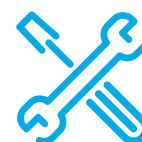
BRAKE AND SUSPENSION TEST CASE - 453 197 003 0

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.



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.



E-LEARNING BASIC BRAKE

Suitable for :

Mechanics, Workshop Technicians, Service Engineers, Counter Sales Staff.

Objective :

This course imparts basic knowledge of compressed air braking systems in motor vehicles and trailers. You will be able to complete the final test at the end. After successful completion, you will receive a certificate indicating your successful participation in this course.

Content :

These main topics will be dealt with:

- Basic functions of device control and physical principles
- Statutory provisions relating to braking systems
- The most important drawing and function symbols for braking systems
- Introduction to ABS and ASR
- Air suspension fundamentals, system example of a conventional air suspension system
- Design and operating mode of typical braking systems for towing vehicles, buses and trailers
- The operating principle of the most important devices in compressed air braking systems

Hint :

- The course can be taken differently, depending on your previous knowledge:
- If you are new to the subject of compressed air braking systems, you should go through the complete course starting with module 1.
- If you already have basic knowledge, of drawing symbols for brake diagrams in particular, you can go directly to module 2 to learn about brake diagrams for towing vehicles, buses and trailers.
- If you are first interested in the way individual devices work, you can also start with module 3.

200 300 106 0



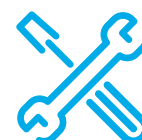
Duration :
From 1 h to 6 h

Price :
70 €

To get more information, please contact us per email:
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ahmed.seif@zf.com
for East Africa



E-LEARNING VCS II - TRAILER ABS



Suitable for :

Mechanics, Workshop Technicians, Service Engineers, Trailer Specialists.

Objective :

This course focuses on VCS II, the Vario Compact ABS of the second generation for trailer vehicles. Once you have passed the final test, you will receive a so-called „licence letter“. With this letter you will be able to obtain your PIN for the VCS II Diagnosis Software.

Content :

These are the main topics that will be dealt with:

- Structure and mode of action of an antiblocking system (ABS) for vehicles with an air brake system
- Properties, functions, and characteristics of a VCS II system
- Initial start-up of a VCS II system by means of the WABCO
- Diagnostic Software Diagnosis and repair of a VCS II system by means of the WABCO Diagnostic Software

Hint :

You can work through the course according to your particular previous knowledge:

- If you are a newcomer to ABS, you should work through the modules in the sequence shown.
- If you are an advanced user, you can begin with module 2 straight away.
- If you are a professional and you feel sufficiently qualified for the final test, you can start taking it at any time

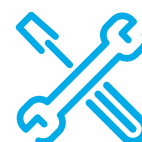
200 300 101 0



Duration :
From 1h to 8h

Tariff :
70 €

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for East Africa



E-LEARNING ECAS

Suitable for :

Mechanics, Workshop Technicians,
Service Engineers.

Objective :

This course focuses on ECAS, the Electronic Air Suspension System for motor vehicles and trailers. Once you have passed the final test, you will receive a so-called „licence letter“.

With this letter you will be able to obtain your PIN2 for the ECAS Diagnostic Software.

Content :

These are the main topics that will be dealt with:

- Structure, mode of action and system functions of ECAS systems on the motor vehicle and the trailer
- Operation mode of the components of an ECAS system
- Calibration of the system by means of the WABCO PC diagnosis
- Diagnosis and maintenance of an ECAS system using the WABCO PC diagnosis

Hint :

You can work through the course according to your particular previous knowledge:

- If you are a newcomer to ECAS, you should work through the modules in the sequence shown.
- If you are an advanced user, you can begin with module 2 straight away.
- If you are a professional and you feel sufficiently qualified for the final test, you can start taking it at any time.

200 300 102 0



Duration :
From 1h to 8h

Tariff :
70 €

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for East Africa



E-LEARNING TRAILER EBS E0

Suitable for :

Mechanics, Workshop Technicians, Service Engineers, Trailer Specialists.

Objective :

This course focuses on Trailer EBS E, the latest Electronic Braking System from WABCO. Once you have passed the final test, you will receive a so called „licence letter“. With this letter you will be able to obtain your PIN 2 for the Trailer EBS E Diagnostic Software.

Content :

These are the main topics that will be dealt with:

- Structure and mode of action of an EBS system for vehicles with an air brake system
- Properties, functions, and characteristics of a Trailer EBS E system
- Calibration of the distance sensor of the integrated electronic air suspension system ECAS
- Parameterization of a Trailer EBS E system using encrypted parameter sets
- Workshop start-up of a Trailer EBS E system by means of the WABCO diagnostic software

Hint :

You can work through the course according to your particular previous knowledge:

- If you are a newcomer to Trailer EBS you should work through the modules in the sequence shown.
- If you are an advanced user, in the 1st module you may check only the innovations introduced with the E generation. After that you may proceed with the 2nd module.
- If you are already a professional and you feel sufficiently qualified for the final test, you can start taking it at any time.

200 300 104 0



Duration :
From 1h to 6h

Tariff :
70 €

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ahmed.seif@zf.com
for East Africa



E-LEARNING OPTITIRE™

Suitable for :

- Mechanics, Workshop Technicians, Service Engineers.

Objective :

- This course covers OptiTire, the latest-generation tire-pressure monitoring system for commercial vehicles. After passing the final test you will receive a so-called "licence letter". This will provide you with your PIN2 for the OptiTire diagnostic software.

Hint :

- The course can be taken differently, depending on your previous knowledge: As a newcomer to OptiTire, you should work through the modules in the sequence shown.
- As an advanced student you can start directly with module 2.
- If you are already comfortable with the field and feel ready for the final test, you can start on it anytime.

200 300 110 0



Duration :
From 1h to 6h

Tariff :
70 €

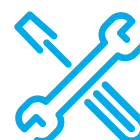
Objective :

These main topics will be dealt with:

- Design, mode of operation and system functions of OptiTire systems in commercial vehicles
- Functionality of the components of an OptiTire system
- Installation and retrofitting of OptiTire systems
- Parameter setting and start-up of the system using the OptiTire diagnostic software
- Diagnosis and repair by means of OptiTire diagnosis

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E-LEARNING E-APU EXCHANGE (APS)



Suitable for :

- Mechanics, Workshop Technicians, Service Engineers.

Objective :

- E-APU is the abbreviated designation for an Electronic Air Processing Unit that is installed in commercial vehicles and buses.
- The SCANIA designation APS denotes the same component.
- To replace a defective device with this new E-APU, the parameter values from the old unit must be transferred to the new E-APU. The corresponding special function must be enabled in the APS-EAPU Diagnostic Software from WABCO for this purpose. For this you will require a PIN, which you can obtain free of charge in this course.

Hint :

- First we need to work through this course however: either the online version, or the print version, which you can download as a PDF. In this way you acquire the knowledge required for carrying out the E-APU parameter setting in a professional manner. You will receive the PIN letter with the PIN for the APS-EAPU Diagnostic Software after you have agreed to the final declaration. If you are already comfortable with the field and feel ready for the final test, you can start on it anytime.

200 300 301 0



Duration :
From 1h to 2h

Tariff :
Free of charge

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for East Africa



E-LEARNING ONLANE INSTALLATION



Suitable for :

- Mechanics, Workshop Technicians, Service Engineers.

Objective :

- The OnLane system is a lane departure warning system for installation or retrofit in vehicles:
- A camera in the windscreen watches the lane markings and warns the driver with a warning sound or by vibrating the driver's seat in the event of any inadvertent lane-change.
- After installation of the hardware the system must be parameterized and calibrated. For this you will require a PIN, which you can obtain free of charge in this course. However, first we need to work through this E- Tutorial, which you can download as a PDF. In this way you acquire the knowledge required for carrying out the OnLane parameter setting and the calibration in a professional manner.
- You will receive the PIN letter with the PIN for the OnLane Diagnostic Software after you have agreed to the final declaration.

200 300 302 0



Duration :
From 1h to 2h

Tariff :
70€

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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, vehiclecontrol, 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:

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- Micky Mathew
 Fleet and Service Leader -
 Middle East and Africa
 micky.mathew@zf.com
 Mobile: +971 50 462 1686



Useful Information

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, ZF 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)

Date	Participants Name	Subject

We commit to pay the training fee of : _____

Signature : _____

Map to ZF training centre



ZF [pro]Academy
 DJAFZA VIEWS 18
 25TH Floor
 Office 01
 Tel +971504621686

www.wabco-academy.com

ZF [pro]Academy

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Tel +971 50 4624686