

April 2020 Professional Online Installer Training

INTERACTIVE TRAINING CLASSES YOU CAN JOIN
FROM YOUR HOME OR WORKPLACE COMPUTER



AFTERMARKET

LEMFÖRDER



SACHS



CAR PARTS WAREHOUSE
RIGHT PARTS - RIGHT PRICE - RIGHT NOW

ZF Online Training Classes

ZF Aftermarket webinar topics and descriptions

The below trainings are designed to be learned from home, where technicians have information right on their screens.

Our webinars are covered over a 60 minute session with a ZF Technical Trainer.

Learn
Online
with ZF

REGISTER ONLINE AT CARPARTSWAREHOUSE.NET

4 ONLINE CLASSES ARE AVAILABLE - SEE REVERSE FOR MORE
YOU MUST SIGN UP FOR EACH COURSE INDIVIDUALLY

MONDAY, APRIL 20TH, 6PM (DURATION, 1 HOUR)

TRW Brake Technology and Diagnostics

The basic braking foundation will be presented. The concepts of brake boosters, master brake cylinders, brake pads, calipers, rotors, and drums are introduced alongside common diagnostic methods.

Essential understanding of brake noise starts with identification. The ability to classify the source will allow for determination of the appropriate solution.

The basic operation of electrical park brake systems is introduced. Different versions of these systems are explained. Training is focused on how to electrically release the park brake system, and the steps to take if mechanical release is needed.

Modern braking systems are heavily connected with driver assistance functions. Systems like adaptive cruise control (ACC), which is radar and camera based technology, will be presented. Assistance based emergency braking will be explained.

After completing this training, the participant will be able to:

- List braking components and their functions
- Explain electrical park brake systems
- Describe proper mechanical release of electrical brake system
- Explain assistance based emergency braking
- Identify noise issues
- Diagnose brake systems and errors

INSTRUCTOR: NIEL SPEETJENS

TUESDAY, APRIL 21ST, 6PM (DURATION, 1 HOUR)

Modern Chassis Dynamics

ZF is developing and producing the chassis systems for all Car Manufactures in the World with their brands Lemfoerder and TRW. This shows the large OE business what ZF is representing.

In this class you will learn a deep inside in ZF chassis technology. We start with the foundations of chassis dynamics with different axle systems like McPherson and Multi-link suspension systems. The participant will understand why the count of control arms is increasing in today's vehicles and why Manufactures choosing Multi link axle systems for their fleet.

The instructor will explain the best way to repair this axle systems.

Electro-mechanical steering systems was the first step to autonomous driving and it is equipped in vehicles since the beginning of 2000.

The participant will learn the influence of these systems to the suspension system. The question of the Influence of a defect ball joint to the EPS will be explained. Replacing, servicing and diagnostic of this system will be taught as well.

After completing this training, the participant will be able to:

- Describe components within the suspension system
- Explain different chassis angles and angle settings
- Describe Kamm's circle
- Differentiate between popular chassis systems
- Describe multi-link suspension system
- Explain toe in curve and proper settings of the toe in curve
- Identify electric steering systems
- Describe common failures related to the suspension in steering systems

INSTRUCTOR: NIEL SPEETJENS

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MOBILE DEVICE**



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Accredited Training Provider