



# 2018 HEAVY DUTY COURSE OFFERING

**Apex**

**FP DIESEL**

**National**  
Oil Seals

**ANCO**

**CHAMPION**

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**WAGNER**

**ONSITE. ONLINE. ON-THE-GO.**

 **FEDERAL-MOGUL  
MOTORPARTS**



**Onsite. Online. On-The-Go.**

Garage Gurus HD is your portal to the most comprehensive training and technical support available in the heavy-duty aftermarket. It is designed to offer you the tools you need to succeed, delivered in the way that best suits your needs.

**Gurus Tech Hotline: 800-325-8886 • Phone Registration: 888-771-6005**

## HEAVY DUTY TRAINING WORKSHOP COURSES

The in-class workshop experience allows students to work hand-in-hand with a Garage Gurus HD Master Trainer at one of our conveniently located Technical Support Centers (TSCs) in Los Angeles, Dallas, Atlanta and Baltimore.



### **HD.701.1.WS | HD Foundation Brake Workshop**

**4 Hours | 10 Student Maximum | \$75.00 per person**

This workshop is designed with a combination of classroom and hands-on education to enhance the technician's ability to properly diagnose and service Heavy-Duty Truck Foundation Brakes. Emphasis will be placed on defining CVSA (Commercial Vehicle Safety Alliance) Out-of-Service Criteria. In addition, we will define the function of the brake system components. We will overview diagnostic procedures used to understand air balance, mechanical balance, torque balance and friction balance.

After completing this workshop, the student will have the knowledge to:

- Properly identify foundation brake components and their function
- Understand Out-of-Service conditions and repairs
- Identify failed components and repair procedures
- Perform measurements on foundation brake components

### **HD.702.1.WS | HD Air Disc Brake Workshop**

**4 Hours | 10 Student Maximum | \$75.00 per person**

This workshop emphasizes classroom and hands-on experience to increase the technician's ability to properly diagnose and service Heavy-Duty Air Disc Brakes. We will discuss CVSA (Commercial Vehicle Safety Alliance) Out-of-Service Criteria and define the function of the disc brake system components. We will highlight the understanding air balance and friction balance.

After completing this workshop, the student will have the knowledge to:

- Properly identify air disc brake components and their function
- Understand Out-of-Service conditions and repairs
- Identify failed components and repair procedures
- Perform brake related measurements



### **HD.801.1.WS | HD Bearings and Seals Workshop**

**4 Hours | 10 Student Maximum | \$75.00 per person**

This workshop is designed with a combination of classroom and hands-on education to enhance the technician's ability to properly diagnose and service wheel end bearings and seals. We will define the function of bearings, seals and hubcaps. We will focus on proper removal, cleaning and installation procedures. We will perform proper end play torque procedures.

After completing this workshop, the student will have the knowledge to:

- Properly identify wheel end components and their function
- Identify failed components and repair procedures
- Perform bearing adjustment
- Understand end play

## ONSITE FIELD CLINICS

The field clinic brings the Garage Gurus HD ASE Certified Master Trainer to the technician's location.

### **HD.701.1.FC | HD Foundation Brake Clinic**

**3 Hours | 10 Student Maximum | \$1,000.00 per event**

This clinic is a hands-on education to enhance the technician's ability to service Heavy-Duty Truck Brakes. We will discuss components, service procedures, diagnostic procedures and out of service criteria. Emphasis will be placed on brake balance.

After completing this clinic, the student will have the knowledge to:

- Properly service foundation brakes
- Inspect and identify component failure modes
- Utilize the proper service tools

### **HD.702.1.FC | HD Air Disc Brake Clinic**

**3 Hours | 10 Student Maximum | \$1,000.00 per event**

This clinic will provide the technician the ability to properly service Heavy-Duty Air Disc Brakes. We will define the function of the disc brake system components and discuss inspection and service procedures. We will overview system balance and proper maintenance.

After completing this clinic, the student will have the knowledge to:

- Understand maintenance simplicity vs. foundation brakes
- Relate repairs procedures to failed components
- Discuss brake performance issues in relation to basic design

### **HD.801.1.FC | HD Bearings and Seals Clinic**

**3 Hours | 10 Student Maximum | \$1,000.00 per event**

This clinic will focus on the technician's ability to properly service wheel end bearings and seals. Procedures for cleaning, inspection and installation will be emphasized. Proper identification of hub types and fasteners will also be discussed.

After completing this clinic, the student will have the knowledge to:

- Understand proper seal removal and installation
- Identify the proper service tools
- Recognize common failure modes





## TECHNICAL LUNCH & LEARN PRESENTATIONS

The Lunch and Learn training presentation brings an ASE Certified Garage Gurus HD On-the-Go trainer right to the technician's location. These presentations range in duration from 30-90 minutes, during which the trainer delivers the latest in specific heavy-duty vehicle systems and diagnostics in a shop environment. The use of hands-on demonstrations (where applicable) makes this a fully interactive training experience for all technicians.

### **HD Foundation Brakes | 45 Minute Foundation Brake Maintenance Inspection**

**Tech Tips:**

- Foundation brake camshaft identification
- Standard stroke vs. long stroke brake chambers

### **HD Air Disc Brakes | 45 Minute Air Disc Brake Maintenance Inspection**

**Tech Tips:**

- Air disc brake pad removal and installation
- Air disc brake maintenance inspection

### **HD Bearings and Seals | 45 Minute Bearings and Seals Installation**

**Tech Tips:**

- Hub mounted seal installation
- Spindle mounted seal installation

