

MEA

21 YEARS OF, BY, FOR AUTO TECHNICIANS

March

class calendar

2010



"We consolidate some of what we learn from our Live Tech Support Hot Line and some of our Real World on-the-job training Tech Van Fixes, into each MEA class - On-Line and Classroom."

Dave Scaler

-DAVE SCALER

MEA Technical Training Director

Visit **MEAttraining.com** for complete class details

Download a Wall Calendar from MEA's Website

Auto Technicians On-Line Worldwide

For just \$30/class, other states, now other countries can experience **on-line**, right in your own shops and homes MEA's unique **Real World Live** tech supported **On-Line** classes. Prepay 10 on-line classes \$200 and save \$100 each time. (Other languages to follow.)

908.496.0059

MEA also offers ALL NJ State ETEP & DMV Classes

All Conventional Classes are at the Maplewood Location unless otherwise indicated

Monday	Tuesday	Wednesday	Thursday
8 Call to Register For ALL Classes Internet and Conventional (973) 426-9001	9 Toyota OBD II Systems Cars and Trucks	10 ALL INTERNET CLASSES NO EXTRA COST TO MEA MEMBERS	11 VW TDI Diesel Are You Ready for Diesel Inspections UPDATED
15 <u>LUNCH Internet Class</u> Today 12:00 ó 12:30 Electronic Power Steering	MEA TRAINING ON YOUR PC Visit www.MEAttraining.com	17 <u>Evening Internet Class</u> Tonight 8:00 PM ó 8:30 PM Diesel Particulate NEW Filter (DPF) Operation and Testing	18 Understanding AIR BAG Systems
22 CALL FOR NJ EMISSION REPAIR UPDATE CLASSES 973-761-7420	23 Diagnosing NEW Auto 4X4 Systems	24 UPDATED Diagnosing Dropped Ford and Lincoln Air Suspension Systems	25 <u>Evening Internet Class</u> Tonight 8:00 PM ó 8:30 PM NEW Dual Cell Wide Ratio Sensors
29 <u>LUNCH Internet Class</u> Today 12:00 ó 12:30 Hyundai Input and Output Trans Speed Sensors NEW	30 NJ State Specific Rules and Regulations Class For <u>Expiring</u> Emission Repair Techs that DO NOT do Inspections	31 Charging, Starting and Battery Systems Testing and Diagnosis	1 <u>Evening Internet Class</u> Tonight 8:00 PM ó 8:30 PM NEW VW NEW Measuring Block Diagnosis With your Snap-On Scanner

**MEA
Members Only
Calendar**


March 2010


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For classes
(973) 426-9001**


1805 Springfield Avenue Maplewood NJ 07040


Hotline hours are from 9am to 5pm Monday through Friday


Classes are from 7pm to


Import Series	Tues March 9th	Import Series	Toyota OBD II
	<u>Systems</u> In Toyota OBD II Systems we cover Toyota's latest problems and their solutions. Highlights include Electronic Throttle Control (including multiple Throttle / Accelerator Pedal Position Sensors) Fuel Pump ECU testing (all systems), Multiple EGR system testing such as Cut-Off Control and Constant Vacuum. Also Toyota's version of the Air Fuel Sensor with alternate testing techniques WITHOUT the factory scan tool. OBD II Catalyst and EGR Monitoring which will keep you on the cutting edge of Toyota's computer		

Import	Thurs March 11th	VW TDI – Are You Ready For Diesel
	<u>Inspection</u> This course has been updated for 2010. Topics to be covered in complete detail are Sensors, Glow Plugs, EGR/ intake manifold flap assembly, VGT (variable geometry turbocharger), Coolant Glow Plugs, Critical Measuring Blocks, Adaptations, Injection Pump and Injectors. Common failures such as P0380 codes, VGT turbo vanes that are improperly operating, Injection pumps and Intake Manifold flaps that cause no starts will be covered. Other items such Quantity Adjuster, N75 and N18 solenoids, Modulating Displacement Piston Sensor and Needle Lift	

INTERNET	Mon March 15th	Lunchtime Internet Class	ELECTRONIC Power
	<u>Steering</u> Distance Learning – Learn On-Line More and More vehicles today are equipped with Electronic Power Steering. This web class will cover this emerging technology and how to diagnose it. From system design, to operation and troubleshooting this web class will show you the ins and outs of ELECTRONIC Power Steering systems. Electronic Power Steering systems have a computer that constantly monitors and controls variable power assist. THE OLD WAYS of diagnosing Hydraulic Power Assist NO LONGER APPLY! This class will is designed to develop new strategies for repairing these systems.		

INTERNET	Wed March 17th	Evening Internet Class	Diesel Particulate Filters
	<u>(DPF)</u> Distance Learning – Learn On-Line Diesel particulate filters (DPF) have been installed on most new diesel vehicles. These filters are new to many people and have a process called regeneration done to keep them operating efficiently. In this webinar we are going to cover multiple types of DPF filters as well as different types of regeneration. Also covered will be maintenance changes to prolong the life of this system including low sulphur fuel and new oil ratings.		

ALL LEVELS!	Thurs March 18th	Air Bags Systems &
	<u>Diagnosis</u> Whether you are changing a turn signal switch, a steering rack, or the maybe the car has Air Bag light on and it was NOT involved in an accident. This course will give you a complete understanding of How , why and when they work. Including removing the myths and misconceptions surrounding air bag service. Diagnosis and testing of Domestic and Import systems. Highlights: Air Bag Squibs, Initiators, Arming and Safing Sensors, DERMs, Shorting Bars, Spiral Springs, Firing Circuit Diagnosis, Manual Deployment, Disposal, Air Bag Simulation, DTCs, and more	

NEW!!!	Tues March 23rd	NEW!!	Diagnosing Auto 4X4
	<u>Systems</u> Electronic 4x4 and Transfer Case Diagnoses Ford, Dodge and General Motors NO 4WD, Stuck in 4WD, Stuck in 4HI or 4LO and more! Today's transfer cases are electronically controlled. The days of moving a lever to position the transfer case into its proper gear has been replaced by push buttons, electric shift motors, control modules, speed sensors, lock solenoids, actuator solenoids and wiring. This class will help you diagnose the common and not so common failures on Ford, GM and Dodge transfer cases. Everything from no 4HI or 4LO, stuck in 4HI or 4LO, diagnostic codes being set and much more will be covered. Voltage and amperage specifications for all the wiring of the above components (not found in flow charts) are given to help shorten diagnostic times. Data stream analysis of both factory and after-		
Ford Transfer Case			

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UPDATED!



Weds March 24th

Diagnosing "Dropped" Air Suspension Systems

tests

Last year we brought you our updated Wheel Alignment class along with a NEW Suspension class. These additions to the curriculum were a prelude to the introduction this long awaited class. These systems have always been a challenge to most technicians, but in this class you will get the answers to the most common questions. From how to pull codes, to leak detection, to understanding the many different systems employed by Ford. Complete testing of solenoids, height sensors, actuators, and compressors. Learn the self diagnostic systems

INTERNET



Thurs March 25th

Evening Internet Class

Dual Cell Wide Ratio

Sensors

Distance Learning – Learn On-Line

The goal of this webinar is to show the proper way to test the most commonly used Wideband O2 sensor that is being used in today's vehicles. This information applies to ALL manufacturers (European, Asian and Domestic). We will show how to correctly connect your Meter or Labscope to the circuits and test the circuit WITHOUT the factory scan tool. Reference voltage (may be called common ground), pump cell control output and Nernst cell input are the three wires that need to be tested with proper technique. Amperage specs for the heater circuits will also be covered, instead of the "book" ohm specs.

INTERNET



Mon March 29th

Lunchtime Internet Class

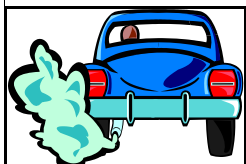
Hyundai Input and Output Speed

Sensors

Distance Learning – Learn On-Line

Hyundai has a lot of problem with their transmission sensors. These are easy electrical fixes that you can perform WITHOUT sending the car to the trans shop, once you know how they work. This class will explore how Input and Output Shaft Speed Sensors affect Trans Operation, Shifting Issues and Limp Home Mode. Of course you will learn how to quickly and accurately diagnose these sensors, as well as how to prevent the common misdiagnosis of testing or diagnosing the VSS which is a separate sensor, having nothing to do with the transmission

DMV Update



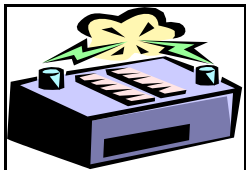
Tues. March 30th

NJ State Specific ERT Rules and Regula-

tions

Did you get the letter from DEP that says your repair license is going to expire? If you have a Repair license and need to renew it, you must update it to include the NJ Specific Rules and Regulations Course. Once again MEA is APPROVED to provide this new course, and we have put together a great package to help you get your update training quickly and easily. You will get all the required information Repair Technician, you are required to know the rules and regulations governing the NJ Enhanced Emission testing process. This is a 3 hour course with NO EXAM,

Entry Level Series!



Weds March 31st

Charging, Starting and Battery System

Testing

Many technicians who are working on Charging Systems every day, were taught INCORRECT procedures for testing these systems. Who should attend this class? Any tech who has not had formal training in recent years, any tech that use a DVOM ONLY to test a charging system, any tech that has not found the reason for multiple alternator failures, any tech that uses a %ilver+hand-held battery tester to test batteries, any tech that does not understand heated windshield circuits and their ability to allow a car not to charge, any tech that has put a battery

INTERNET



Thurs April 1st

Evening Internet Class

VW Measuring Block

Diagnosis

Distance Learning – Learn On-Line

The intent of this webinar is to learn how to find and interpret the factory data stream (called measuring blocks on VW) using the Volkswagen software that is in your Snap-On scanner. The Snap On software has the ability to display data, just like a factory scan tool. The data is displayed the same as in the VW factory tool, but sometime the VW format leads to confusion. The ability to interpret the VW measuring blocks is critical in diagnosis, as the Generic OBD II data stream is not sufficient in most cases. Accessing the factory level measuring blocks will shorten your diagnostics times considerably. Some examples to be covered are Misfire Counter, Turbo Boost performance, Factory Fuel Trims (called Additive and Multiplicative) and more.