

MEA
1989 – 2009
“20 Years”
Young

MEA
Mechanic's OnLine & Classroom Education
February 2009 Calendar

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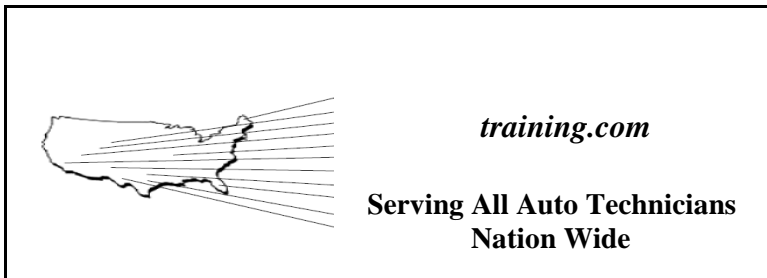
INDIVIDUAL MEA ON-LINE CLASS MEMBERSHIPS
JUST \$200

Eligibility cards include 10 MEA on-line classes

“NO EXTRA COST”

**You become Eligible for MEA Benefits and/or
 just purchase 10 MEA online classes and
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Call Bill Willix 1.800.748.5241 or MEA Office 908.496.0059



ALL INTERNET CLASSES ARE FREE TO MEA MEMBERS

All Conventional Classes are at the Maplewood Location unless otherwise indicated

Monday	Tuesday	Wednesday	Thursday
2 ALL INTERNET CLASSES FREE TO MEA MEMBERS	3 Lunchtime Internet Class Today 12:00 – 12:30 Honda ELD	4 Import Ignition Troubleshooting	5 Evening Internet Class Tonight 8:00 – 8:30 Electronic Power Steering NEW
9 FORD 6.0 Power Stroke Diesel Part II	10 ATTENTION READ THIS!!! BOTH Regular & Internet Classes are on this Calendar	11 Lunchtime Internet Class Today 12:00 – 12:30 Chrysler NVLD EVAP	12 Brakes “Doing Them Right”
16 Call to Register For ALL Classes Internet and Conventional (973) 426-9001	17 Satellite Class – Pine Beach Computer Controlled Charging Systems NEW	18 MEA Training On your PC Visit MEAttraining.com for Details	19 Dodge 5.9 Cummins Diesel Testing Techniques
23 GM NEW 4X4 / Transfer Case	24 Lunchtime Internet Class Today 12:00 – 12:30 Understanding Shift Solenoids “Fix It or Ship It”	WE NEED DIESEL PARTS! If you have them, PLEASE SAVE THEM FOR US!	26 Using Mode 6 Scan Data NEW To Fix Many Makes and Models

**MEA
Members Only
Calendar**

1805 Springfield Avenue Maplewood NJ 07040

February 2009

**CALL To Register
For classes
(973) 426-9001**

Hotline hours are from 9am to 5pm Monday through Friday Classes are from 7pm to 10pm

INTERNET



Tues Feb. 3rd

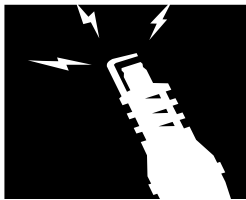
**Lunchtime Internet Class
Distance Learning – Learn On-Line**

Honda ELD

This PCM controlled and Monitored Charging System is used on Honda and Acura cars and trucks. Included will be specification not found in any book for all of the circuits. These circuits include the ELD, PCM controlled terminals, field regulation, output to PCM circuits and more.

Call 973-761-7420 with any Internet Technical Issues

ALL Levels!



Weds. Feb. 4th

Import Ignition Troubleshooting

Over 20 years of Import Ignition Systems in 1 NIGHT! This course uses a special technique (the MEA WAY!) to quickly and accurately troubleshoot import ignition systems. Following manufacturer test procedures for each ignition system can take days, this course will give the student quick tests and universal troubleshooting techniques that will speed the diagnosis, particularly with No Starts. Both European and Asian systems will be covered, as this is the ONLY ignition course that MEA offers that will cover NON-computerized as well as computerized Import Ignition systems. You will also learn to troubleshoot the HOBOKEN ignition system, which will set the stage for all import diagnosis.

INTERNET



Thurs. Feb. 5th

**Evening Internet Class
Distance Learning – Learn On-Line**

ELECTRONIC Power Steering

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 be designed to develop new strategies for repairing these systems.

Call 973-761-7420 with any Internet Technical Issues

DIESEL

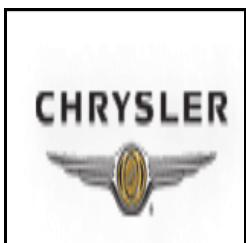


Mon.. Feb 9th

6.0 Power Stroke Diesel Part II

Welcome to the next generation of Ford Power Stroke Diesels. This continues our expansion of light duty diesel classes. This class focuses on the 6.0 as we take a look at the similarities to the 7.3 as well as major changes. Course highlights include: / 48 Volt Injectors / Horizontal Fuel Conditioning Module / EGR Throttle Plates / All Sensors: ICP, APP, EP EGR / Changes to High Pressure Oiling Systems / Changes to Glow Plug Systems / Sensors / APP / IVS / EOT / Self-Diagnosis / Variable Geometry Turbocharging / Exhaust Backpressure systems.

INTERNET



Weds. Feb. 11th

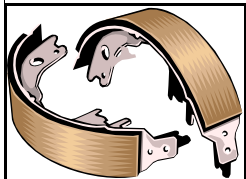
**Lunchtime Internet Class
Distance Learning – Learn On-Line**

Chrysler NVLD Evap

The latest technology and methods to diagnose evaporative fuel system leaks is being performed by the PCM with vehicle OFF. This course will detail the Chrysler Natural Vacuum Leak Detection system. How it works, how to diagnose and fix these NEW systems will be covered. This are NOT the Leak Detection Pump systems! In this course MEA will show the key differences between previous evaporative systems and Engine Off leak diagnostics. The intent of these systems is to find small leaks (.020) much more effectively than the earlier methods.

Call 973-761-7420 with any Internet Technical Issues

All Levels!



Thurs. Feb. 12th

Brakes – “Doing Them Right”

In this class we will cover not only the theory and operation of all parts of the brake system on cars today, but how to diagnose and repair them RIGHT the first time! Learn how different friction material can effect your brake service. Complete coverage of hydraulic systems from master to wheels and all the valves in between. The do's and don't's when resurfacing drums and rotors as well as what to look for to keep from doing it again, such as the importance of proper wheel torque. Coverage of the power systems - both vacuum and hydraulic. Learn how to stay out of trouble when servicing a vehicle with ABS and how to prevent comebacks with the common complaints of brakes pulling, squealing, or locking up.

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Classes are from 7pm to 10pm

Satellite



Tues. Feb. 17th

NEW!!

Computer Controlled Charging

In this class we will cover Charging Systems Controlled by the PCM, BCM, GBCM and other computers. Chrysler, Ford, GM and Honda currently have these systems and more manufacturers are installing these systems. We will cover operation and testing of current sensors and battery temp sensors. Electrical Power Management coverage, including different modes of operation such as Charge mode, Fuel Economy mode and Load Shedding. Also covered will be RVC, SARVC, Gen Com, Gen Mon, ELD, and EVR. This class will help you quickly decide if it's a bad alternator or if the computer is the cause.

Satellite Class – Pine Beach Firehouse, 525 Prospect Ave. Pine beach, NJ 08741

Diesel Series



Thurs.. Feb. 19th

Dodge Cummings Diesel Testing Techniques

This is the latest edition to MEA's diesel engine performance series. 1st, 2nd, and 3rd generations of Cummings Diesel will be discussed. Operation and testing of Fuel Injection Pumps, Input sensors, glow plugs, injectors and more will be covered. Turbo Charger diagnostics will also be covered in detail. Starting with mechanical injection, we will discuss the changes in each system all the way to today's common rail systems.

4 X 4



Mon. Feb 23rd

NEW!!

GM 4X4 and Transfer Case

This is the first class in a series of transfer case and 4X4 classes. The focus of the class is the electronic operation and testing of the GM 4X4 Transfer Case. Today's transfer case's are computer controlled. All Inputs to be covered, including prop shaft speed, shift control switch, encoder motor feedback circuits. The output controls to be covered are encoder motor operation, and front axle actuator. By covering all the inputs and outputs and the wiring for the transfer case control module, interpretation of scan data will be covered that will help bring all the pieces together.

INTERNET



Tues. Feb. 24th

Lunchtime Internet Class

Understanding Shift Solenoids

Distance Learning – Learn On-Line

Sometimes it is difficult for a Repair shop to know if the transmission problem is electrical or mechanical. Electrical repairs are often best kept in house, where a mechanical transmission repair may be best sent to a trans shop. In many cases with computer controlled transmissions we have fast and effective ways to diagnose electrical concerns over mechanical concerns. This webinar will look at Pressure Control Solenoids and Shift solenoids, how they operate and how to get to the bottom of the problem fast!

Call 973-761-7420 with any Internet Technical Issues

Scan Tool Series



Thurs. Feb. 26th

NEW!!

Using Mode 6 Scan Data

Do you need to perform a Complete Drive Cycle after every repair?

Mode 6 is one of the least understood parts of OBD II. Although it was originally designed for engineer's usage, it can easily be accessed by any OBDII compliant scan tool, to "confirm your diagnoses and repair" WITHOUT having to perform a complete drive cycle. It can be used to help identify problems that **don't** show up in scan data, and forecast the future by finding problems before a code is set. Ever wonder what the exact spec of a DTC failure is and how much it has failed by? Mode 6 is sometimes avoided due to its unusual format, "TID's", "CID's", "MID's", "undocumented" and numbering like "\$1F". Learn how to look them up and use a simple software or calculator, to convert **confusing formats** to something we can use to **FIX** cars the very next day. Interactive case studies will be used to prove **how easy it is to use**, and to better improve your **diagnostic efficiency** and accuracy.