

MEA

22 YEARS OF, BY, FOR AUTO TECHNICIANS

June

2011

class calendar

Mechanics' Education Association

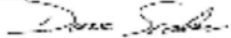
Visit MEAttraining.com for complete class details

Download a Wall Calendar from MEA's Website 908.496.0059

MEA tech-supported classes

On-site, on-the-job fixes

"We consolidate some MEA virtual computer to computer, Live phone, teacher techvan real world fixes into each class. Online or conventional, bring a pad to class."



-DAVE SCALER

MEA Technical Training Director

"Bring a Pad to class"

MEA Online is **alive**, and **interactive** training and is now right in your own **shops** and **homes**. Just \$30 a class, prepay 10 online classes \$200 and save **\$100** each time.

MEA is a **school**, not **just** a hotline and not **just** a **teacher** techvan

MEA also offers ALL NJ State ETEP & DMV Classes

Go to school **online**, day or night

Monday	Tuesday	Wednesday	Thursday
6 Evening Internet Class 8:00pm—8:30pm Mercedes Service Light Reset Procedures	7 MORNING AM Internet 8:00am — 8:30am Ford Computer Controlled Charging Systems	8 Bumper to Bumper Body Electronics	Call to Register For Classroom Training (973)426-9001 For Internet Training: www.MEAttraining.com
If you are only using the Tech Line, you are not getting the Full Benefit from your MEA Membership. GO TO SCHOOL	14 Hybrid Vehicle Service Toyota—Ford	15 Lunch Internet Noon – 12:30pm A/C Temperature vs Pressure Testing	16 Using Your Lab Scope All Scopes
20 J2534 Part I Opportunities in Reprogramming & Reflashing In your shop	21 NJ Inspector Course Night 1	Call Lou on the Hot Line If you want to be an MEA Virtual Hot Line BETA Shop	23 Special One Hour Evening Evening Internet Class 8:00pm—9:00pm 5.9 Cummins Common Fuel Rail Systems
27 J2534 Part II "Hands-On" Reprogramming & Reflashing	28 NJ Inspector Course Night 2	29 Special One Hour Evening Evening Internet Class 8:00pm—9:00pm Digital MAF and MAP Sensor Diagnosis	All Internet Classes No Additional Cost for MEA Members

MEA Members Only Calendar

1805 Springfield Avenue Maplewood NJ 07040

June 2011

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



Mercedes-Benz

Mon. June 6th Evening Internet Class Mercedes Service Light RESET Procedures

When servicing Mercedes Benz vehicles replacing the parts is not the only part of the job. These vehicles have Flexible Service Systems (FSS) to properly warn the driver of future service. They may want these "annoying" messages cleared from the instrument cluster. You no longer have to send them through the dealer. We will cover a few generations of the later generation Mercedes Benz vehicles for their service procedures, what they mean and how to reset them.

Call 973-761-7420 with any Internet Technical Issues

INTERNET

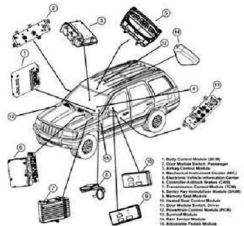


Tues June 7th Morning Internet Class FORD Computer Controlled Charging Systems

Fixing a FORD computer controlled charging system has never been easier now that MEA has a class. The course will cover Generator Field Signal Monitor, Gen Com, FR, LI, Generator Field Control Output, Gen Mon, Gen Cmd, and RC. This course will also cover complete testing of charging Circuit from PCM to Alternator and How to make sure you have the correct alternator. Common failures and MEA Only+ specifications makes this class a must attend.

Call 973-761-7420 with any Internet Technical Issues

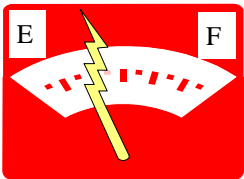
Intermediate



Wed. June 8th Bumper to Bumper Body Electronics

This class will provide diagnostic and testing information on electronically controlled wipers, electric power sliding doors (PSD), electronic cruise control systems and pulsed controlled power windows. Cruise control and power windows now have multiple modules involved for proper operation. It is no longer as simple as pushing a switch when it comes to diagnosing these systems. The class will cover the application of tests using scan tools, volt meters, and lab scopes. Dave will discuss common problems with all of the key components, including PSD motors, PSD detent switches, optical sensors, B pillar switches, remote keyless entry (RKE), drive motor assemblies, latch actuators, multi-function switches, wiper control modules (wiper governors), wiper motor low-high-delay operation, and the sometimes difficult to diagnose, the wipers do not want to park+complaint. **Wire by wire** analysis of all these systems will be covered in detail.

Hybrid



Tues June 14th Hybrid Vehicles Toyota/Ford-Operation & Service

Starting in 1999 these vehicles are actually getting old and are very likely to end up in your bay! We will cover , Toyota and Ford systems from 1999 . 2005. Highlights include 144, 274, 202, 300 and 500 volt systems., Hybrid Synergy Drive, Regenerative Braking, Series and Parallel Drive Systems, Insulated Gate Bi-Polar Transistors, IMA Operation, Safety Shut-off Systems and much more. This class is a must for all technicians. Whether you do routine service or are the driveability expert, knowledge of these systems and how to service them is imperative!

INTERNET



Wed June 15th Lunchtime Internet Class AC Temp Vs. Pressure Testing

With system capacities reaching and all time low, sometimes pressure gauges alone are not enough to accurately determine if an AC system is working correctly. A system that is undercharged by as little as 10% on a 1lb. system can cause compressor failure, as well as poor system performance. This course will look at the good bad and ugly of temperature vs. pressure testing and explain how you may want to add temp testing to help you diagnose any AC problem.

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MEA Members Only Calendar

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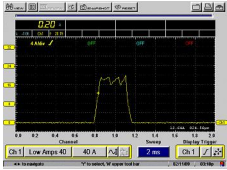
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Tool Series



Thurs. June 16th

Using Your Lab Scope – ALL SCOPES

This class is designed to cover a variety of Lab Scope makes. You will get coverage of all the functions testing using the labscope. Learn how to get reliable results when checking items like AC generators, hall effect sensors, such as the Ford Cam Sensor, and wheel speed sensors. You will find that when you master your Scope, you will start to fix the most difficult cars that come into your bays. It is also strongly recommended that every technician take our **"Labscope"** and **"Current Ramping"** classes in conjunction with this one.

Cutting Edge



Mon June 20th & 27th

Parts I & II

J2534 Internet Pass-Thru Reprogramming

Two part Reprogramming Class. First learn about the Opportunities available to you and then follow that with Hands-On experience

DOMESTIC AND IMPORT systems will be covered!!!! You CAN start flashing FORD OR TOYOTA cars and trucks the next day for less than \$500 if you attend this class! Think of this scenario. You have an OBDII code P0420 (catalytic converter below threshold). The diagnosis is a faulty catalytic converter, but there is also a Technical Service Bulletin to address a P0420 by updating the software inside the PCM. This class covers how to insure the vehicle is "finished" by showing the how to do software reprogramming in the independent repair shop. This class will cover the PRACTICAL ways to reprogram in the shop using both J2534 Internet reprogramming, as well as with OE scan tools. More and more PCMs in today's cars are shipped "empty"; meaning they REQUIRE software to allow the vehicle to run, or to marry the new PCM to the immobilizer system. Without the ability to reprogram, the vehicle must be sent back to the dealer, causing the shop to lose opportunity. This class will show the good, the bad and the ugly of vehicle programming for both import and domestic vehicles. Delivered in an upbeat, high-energy fashion, you will leave this course with an game plan of how to provide reprogramming in your shop, and how to make it software updates and reprogram part of the services you provide.

Internet



Thurs June 23rd Special One Hour (8-9pm) Evening Internet 5.9 Cummins Common Rail Systems

The most common failure on these vehicles is a no start, because of no fuel. We will be covering the low pressure and high pressure fuel systems in complete detail. Low pressure transfer fuel pump, high pressure fuel pump, fuel rail pressure sensor, pressure relief valve, connector tubes, and all of electrical circuits and wiring that are involved.

Call 973-761-7420 with any Internet Technical Issues

INTERNET



Wed June 29th Special One Hour (8-9pm) Evening Internet Digital MAF & MAP Diagnosis

From GM to KIA, many manufacturers today are using frequency based MAF signals instead of Analog Signals. In this webinar we are going to cover MAF sensors that send a frequency (HZ) based digital signal to the PCM and show you how to test them FAST! The PCM uses this signal to calculate the amount of air entering the engine. These sensors operate and are tested differently than MAF sensors that produce an analog voltage signal. GM, Hyundai, Kia and others will be detailed to assure proper testing and diagnosis.

Call 973-761-7420 with any Internet Technical Issues