

FLORIDA DEPARTMENT OF EDUCATION



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March 30, 2012

MEMORANDUM

TO: Career and Technical Education Directors
Technical Center Directors
Florida College Occupational Deans

FROM: Rod Duckworth, Chancellor *RD*
Division of Career and Adult Education

SUBJECT: Available Summer Training for Florida Automotive Instructors

Your automotive instructors are invited to participate in the 9th annual Florida Automotive Instructors Summer Training Workshop. This workshop is a cooperative effort between The Florida Automobile Dealers Association (FADA), The Central Florida Auto Dealers Association, The Florida Department of Education (DOE), Southeast Toyota Distributors, Toyota Motor Sales, BMW, Today's Class, Snap-on Tools, Hunter Engineering, Bosch Diagnostics, CDX, ProCut, ACDelco, KPA and ATech/Learning Labs to provide your automotive instructors with advanced training in the following areas:

BMW -- All new Active E - A BMW 1 Series with All Electric Propulsion

- This will cover features of the vehicle including safety of the high voltage system.
- Discounting the high voltage system, battery systems, battery cooling, electric machines, and power electronics.

Toyota -- Fundamentals of the Toyota Hybrid System

- An introduction to the basics of Toyota's Hybrid powertrain systems.
- This will include transaxle, internal combustion engine, and high voltage component operation.
- The class is meant to provide a basic understanding of how Toyota Hybrid systems function to compliment the instructors existing knowledge of Hybrid vehicle operation.

This class WILL NOT qualify or certify any attendee to service Toyota Hybrid vehicle systems.

Snap-on -- How to Teach Scanner Usage to Beginners

- This course will include basic scanner settings, navigation and use of the Snap-on branded scanner.

ACDelco -- Spark Ignition Direct Injection (SIDI)

This session will cover:

- Explanation of the SIDI system.
- Operational strategy of the fuel delivery system.
- Explanation of the SIDI start/stop feature.
- Emission standards and the Idle Law.
- Scan tool diagnostics and service.

ATech/Learning Labs & Hunter Engineering (combo class)

Morning – Atech/Learning Labs:

- **Course 1: Understanding Pulse Width Modulation (PWM)**
 - This seminar deals with PWM signals and their proliferation in modern vehicles.
 - As the pace of 'electrification' increases in today's cars and light trucks, it becomes ever more important to understand the background nature of computer operation. That is the basis of this session. Note: This presentation revolves around actual computer signals (input and output) and is not a programming or 'scope' class.
- **Course 2: When the Flowchart Fails, Diagnosis Using Schematics**
 - What is a technician to do when a Diagnostic Procedure Chart either doesn't provide an answer, or worse, gives an incorrect answer?
 - In this session actual OE (original equipment) electrical schematics will be used to develop a better understanding of how to read schematics, what the symbols mean, and how to carry out diagnostic procedures using only electrical schematic diagrams. As a part of the training, the students will perform 'group diagnoses' on some faults using only electrical schematics and basic test equipment.

Afternoon – Hunter Engineering:

- **Advanced Alignment Adjustments and Systems**
 - The course will cover advanced wheel alignment adjustment and electronic sensor servicing techniques. The latest OE specific alignment procedures are discussed, which includes diagnostics, angle correction and electronic systems as they relate to steering and suspension. The newest alignment equipment will be available for the practical portion of the course.

ProCut & Bosch Diagnostics (combo class)

Morning – ProCut:

- **Using the ProCut on Car Brake Lathe**

Afternoon – Bosch Diagnostics:

- **Repair Efficiency Clinic - A/C J2788 and J2534 Reprogramming**

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- Air Conditioning Update – What's New?
- What is SAE J2788 and why is this important?
- Do you currently own a J2788 compliant machine?
- J2534 Reprogramming – Are you ready?
- Why J2534 Reprogramming?
- Can you make a profit reprogramming?
- How to get started quick and easy?
- Real World Case Studies – Where reprogramming saved the day!

CDX & FADA Certified Technician Testing (combo class)

Morning – CDX:

- **Interactive Automotive Curriculum**

- Brand new updated and redesigned version of CDX Automotive Interactive Training for 2012 – with new features, interactive content, instructor customizable and updated content, and much more.

Afternoon – FADA Certified Technician Testing:

- **FADA Certified Technician Testing open from 2:00 – 5:00**

The training** is open to all Florida automotive instructors and will be conducted by industry trainers at the facilities of Mid-FL Tech, 2900 West Oak Ridge Road, Orlando, Florida 32809, Building 400, from **June 11-15, 2012**. This training will satisfy NATEF (National Automotive Technicians Education Foundations) and AYES (Automotive Youth Education Systems) Continuing Education requirements.

****Space for this event is limited, and registrations will be accepted on a first-come, first-served basis through April 30, 2012 via our online registration system:**

<http://www.flada.org/automotive-training>

The training is free; but travel, room and board are the responsibility of the individual or institution. If you have any questions about the training and/or registration, please contact Randy Houck via e-mail at rhouck2@cfl.rr.com.

Thank you.

RD/eoj

c: Eric Owens, Interim Director, Career and Technical Education Programs, DOE
Randy Houck, Director, FL AYES