



AVI CONFERENCE 2024

JANUARY 11th - 14th

Marriott Sanibel Harbour
Resort & Spa, Fort Myers FL

Presented by

The GROUP
TRAINING ACADEMY

N! NEXUS
A PROGRESSIVE AUTOMOTIVE COMMUNITY
NORTH AMERICA

Course Topics & description

- **Ford Lightning EV. Leading Technology** - 4 Hours
- **Chevy Bolt Technology** - 4 Hours
- **Scan Tool – Dollars and Diagnostics** - 4 Hours
- **Labscope – Dollars and Diagnostics** - 4 Hours
- **Real World Electrical Tricks** - 4 Hours
- **Ignition System – Dollars and Diagnostics** - 4 Hours
- **Air Brake Hands-On** - 8 Hours - limited to 20 people MAX
- **HD DPF, and SCR Systems** - 8 Hours
- **EV A/C Systems and Compressors** - 8 Hours
- **CAN and F CAN Hands-On** - 8 Hours - limited to 20 people MAX
- **Cummins 6.7 Diesel** - 8 Hours
- **Courtroom Diagnostics** - 4 Hours
- **Train the Trainer Event** - 4 Hours



For More Information Contact Us at:

AVIconference.com

Call: **800-718-7246**

Email: **support@aviondemand.com**

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Ford Lightning EV Leading Technology - 4hr

Upcoming versions of the Lightning will introduce new performance enhancements. You'll have the chance to examine a Ford Lightning and explore its features firsthand. AVI will showcase its own Ford Lightning at the event, demonstrating service procedures and safety protocols in action. The following items will be covered in this event.

- **Safety**
- **Removing high-voltage power**
- **Required equipment for service and repair**
- **Maintenance needs and implementation**
- **Service tips**
- **Gaining access to components**
- **New technology**

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Chevy Bolt Technology - 4hr

Get a look at a Chevy Bolt and check out the technology, real-world safety, and service procedures. The following items will be covered in this event.

- **Verifying high-voltage power**
- **Required equipment for service and repair**
- **Maintenance needs and tips**
- **Safety disconnect procedures**
- **Gaining access to components**
- **A quick look at General Motors' new model EVs**

Hands-on demonstrations cameras will be set up to display procedures on a large screen so you can see in person and not miss an important view.

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Scan Tool Dollars and Diagnostics - 4hr

The latest scan tool models bring innovative approaches that can maximize your return on investment. Discover how to leverage your scan tool for more efficient, faster, and cost-effective diagnostics. The following items will be covered in this event:

- **Using the whole diagnostic suite as a team**
- **Verifying BUS integrity with the scanner**
- **Quick testing battery and charging concerns with your scanner**
- **Scanner network diagnostics**
- **Scanning tips and tricks**
- **Using wiring diagrams on the scan tool**
- **Getting diagnostic help on the scan tool**

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Lab Scope Dollars and Diagnostics - 4hr

Simply having a scope in your toolbox won't cut it. Acquire the knowledge to utilize your labscope effectively for improved, faster, and revenue-generating diagnostics. The following items will be covered in this event.

- **Cranking and charging tests**
- **Verifying BUS integrity**
- **Compression testing**
- **The power of the amp clamp**
- **No starts**
- **Labscope tips and tricks**

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Real World Electrical Tricks - 4hr

Discover how to maximize the efficiency, speed, and precision of your electrical troubleshooting using your DVOM and tools. Real-world diagnostic procedures with the latest tools, allowing you adopt more cost-effective diagnostic techniques that will save you money. The following items will be covered in this event.

- **Voltage drop testing the quick way**
- **Picking the right tool for the job**
- **Quick testing for battery and charging concerns**
- **Wiring diagram tips**
- **Using your DVOM effectively**

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Ignition System Dollars and Diagnostics - 4hr

It's time to revisit the topic of ignition. Ignition systems have evolved, bringing with them new challenges. Gain insight into real diagnostic procedures for ignition systems. To address the diverse range of systems that require diagnosis and repair, AVI will utilize instructor and participant-led demonstrations to ensure an engaging and interactive program. The following items will be covered in this event:

- **Using the scan tool to diagnose ignition concerns**
- **Verifying ignition integrity with the scanner**
- **No start testing**
- **Testing coils with a scope**
- **Using wiring diagrams for quicker diagnostics**
- **Redesigned ignition components**

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Air Brake hands-on ***8 Hour - limited to 20 people MAX***

This course aims to actively involve participants by providing them with practical insights into the functioning of air brake components. During the course, attendees will construct an air brake system, connect its components, and ensure its proper functionality. The course will also delve into in-depth discussions regarding base friction systems, along with explanations and adjustments specific to various types of disc air systems. The following components will be covered in detail:

- **Compressor**
- **Governors**
- **Air dryers**
- **Plumbing**
- **Relay valves**
- **Anti-compounding valves**
- **Treadle valve**
- **Chambers**
- **Spring brakes**
- **Disc air systems**
- **ABS systems and scan tool use**
- **Testing for air leaks**
- **Air Brake component diagnostics**
- **And much more**

**** Please bring your safety glasses" and highlight or make bold or something so it stand out.**

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Heavy Duty DPF and SCR Systems - 8hr

We will delve into a comprehensive examination of the operations of DPF and SCR systems, which can pose challenges when it comes to diagnosis and repair. This course will include a thorough exploration of component identification and their functioning in contemporary systems, encompassing sensors, coolers, injectors, actuators, and valves. Furthermore, we will address diagnostics for both electrical and mechanical failures associated with these systems. The instructor will lead the class in hands-on demonstrations of diagnostics with parts. If you are a Light, Medium, or heavy Duty technician you will benefit from this course.

Ever wonder if the DEF fluid is good or how do I turn the SCR light off?
The following components and techniques will be covered.

- **EGT temperature sensors**
- **NOx sensors**
- **SCR pumps**
- **Carbon build-up**
- **Coolant leaks**
- **Quick diagnostics**
- **Scan tool bi-directional testing**
- **SCR fluid testing**
- **Testing for DEF in fuel**
- **DPF regeneration**
- **DOC operation**
- **Tool usage**
- **Ancillary problem causes**
- **And much more**

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EV A/C Systems & Compressors - 8hr

In this course, we will address the design, functioning, and evaluation of air conditioning (A/C) systems in hybrid and electric vehicles. These systems exhibit various configurations, ranging from compressor drive mechanisms, including sole belt-driven, belt/electric hybrid, to entirely electric setups, which can operate on either AC or DC voltage sources. Additionally, we will provide a concise overview of the refrigeration cycle. Throughout the course, we will demonstrate the practical aspects of operating, testing, and diagnosing these A/C systems.

This is 8 hours of pure electric AC. The following items will be covered:

- **R1234yf Vs R134a**
- **Service safety**
- **System operation**
- **System testing**
- **Compressor types and testing**
- **Leak testing**
- **Hands-on demo on A/C electric mockup**
- **Test equipment required**
- **New Honeywell A/C dyed 1234yf**
- **Plus much more**

AVI will guide you through the diagnostic procedures with our electric compressor demonstration system. We will showcase all the essential testing and repair techniques required. Witness the process and then have the opportunity to apply these techniques yourself. A real hands-on type A/C class.

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CAN and F-CAN

8 Hour - limited to 20 people MAX

This course will cover the design, operation, and testing of F-CAN systems like no other class you have attended. This is a hands-on course with you sitting in an air-conditioned classroom and working on F-CAN systems.

- You will build a CAN system
- You will power up the CAN system
- System operation
- You will test the CAN system
- You will bug your system and test it
- Scope testing on the CAN system
- New updates coming to networking
- Test equipment required
- Plus much more

AVI will take you through diagnostics on our F-CAN demo system. We will demo testing and repair techniques. See it and do it for yourself in this hands-on F-CAN class.

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Cummins 6.7 Diesel - 8hr

In this course, we will explore the design, functioning, and evaluation of Cummins 6.7 diesel engines, which are a comprehensive package requiring a strong troubleshooting skill set for effective servicing. AVI will guide you through the diagnostic processes for Cummins 6.7 vehicles, enabling you to gain insight into the latest advancements, such as hydraulic lifters and more. Did you know the high output Cummins 6.7 has less compression? The following items will be covered:

- **Engine repairs**
- **Camshaft and lifter replacement without pulling the head**
- **System operation**
- **Turbo system testing**
- **High-pressure pump types and testing**
- **Fuel system testing**
- **Demo fuel system testing**
- **SCR, EGR, and DEF testing**
- **Scope testing**
- **Plus much more**

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Courtroom Diagnostics - 4hr

This isn't your typical People's Court scenario. Let's enjoy ourselves a bit. You assume the role of the jury. In today's world, we can add some humor to industry events. AVI will guide you through case studies that teach essential techniques for safeguarding your business in an fun manner. The cases heard by the judge and jury will involve:

- **Thermal events**
- **Accidents**
- **Law suits**
- **MAP guidelines**

See you at this fun program!

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Train the Trainer Event - 4hr

Learn ways to set up a Hybrid EV program in your school. You can start by setting the foundation with maintenance needs on Hybrids and EV platforms. Then, work into diagnostics and service. Here is a brief outline of the program:

- **Setting a foundation to build a great program**
- **Starter learning processes to keep interest**
- **Maintenance course examples**
- **Foundational examples**
- **Safety examples**
- **Classroom PowerPoint examples**
- **Work exercises**
- **Worksheets**
- **Turn key program**

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