



# CATALOG 2024

**AVI**  
ON DEMAND

**AVI**  
ON-SITE

# About



The Group Training Academy is the training arm of the Automotive Parts Services Group. The goal of The Group is a solid focus on “best in class” in order to provide overall value and support within the auto care industry, build upon the success, cultures and relationships.

## **The Group Training Academy is powered by AVI.**

Automotive Video Innovations (AVI) was founded in 1994. AVI is an ASE Accredited Training Provider for the automotive industry. The mission of AVI is to produce automotive repair training courses and information for the automotive aftermarket, providing current and future repair technicians with the highest level of technical training available.

AVI produces automotive technician training for online On Demand, instructor-led courses, technical training manuals and other media, with a commitment to continually update this training to stay in-step with the evolution of automotive technology.

The newest brand under the AVI umbrella is AVI On-Site. Focused on providing expert-led, hands-on training at the customers location. We come to your shop, teach your techs, and provide access to cutting edge training aids, techniques, and technology.

Presently our offerings consist of 1,000+ hours of online training content, ASE Master Certified instructors for live, on-site, and virtual training, and a robust offering of training aids for educators.



Accredited Training Provider



**AVI World Headquarters**  
6280 Arc Way Fort Myers, FL 33966 • 1-800-718-7246







# ON-LINE TRAINING

## Introducing the All Access Pass - Online Automotive Training Platform

With the All Access Pass, you gain access to AVI’s online educational resources designed to sharpen your skills and keep you at the forefront of the automotive industry.

**Training topics include:** ASE certification training, Diesel, Diagnostics, Electrical, Hybrids and alternative fuels, Scanner & Scope training, Air conditioning, Management, Suspension and steering, ADAS technology and much more, with new courses added monthly.

Here’s what you can expect:

**Flexible Learning:** Explore over 1000+ hours of content with the All Access Pass, unmatched in the industry. Learn at your own pace with our All Access Pass.

**Expert-Led training:** Learn from industry leaders and subject matter experts for top-quality education.

**Engaging Training Videos:** Dive into our hands-on training videos, packed with visual learning resources and rich multimedia content, making it easy to master your technician skills

**Comprehensive Learning:** Access pre-tests, engaging course content, post-tests, and achievement certificates to enhance your skills.  
The All Access Pass combines powerful features with ease of use.

The All Access Pass combines powerful features with ease of use.

### Shops and Educators can:

- Assign Courses
- Set Due Dates
- Track Users Progress
- Set Individual Learning Paths

### Online Training Features:

- Access Online 24/7
- Download Reports
- Pre and Post Testing
- Print & Download Certificates

**AVI is an ASE accredited training provider.**  
**Our training is approved for NATEF/ASE Education Foundation credits.**

## ASE training

### Test Preparation

As an ASE accredited training provider, AVI is committed to helping automotive professionals achieve their career goals through comprehensive ASE test preparation programs.

Our programs cover a wide range of ASE certification areas, ensuring that you have the knowledge and skills to excel in your field. With our expert instructors and comprehensive study materials, you’ll be fully prepared to pass your ASE exams and advance in your automotive career.

- ASE A1 Test Prep: **Engine Repair**
- ASE A2 Test Prep: **Automatic Transmission**
- ASE A3 Test Prep: **Manual Drivetrains and Axles**
- ASE A4 Test Prep: **Suspension and Steering**
- ASE A5 Test Prep: **Automotive/Light Truck Brakes**
- ASE A6 Test Prep: **Electrical and Electronic Systems**
- ASE A7 Test Prep: **Heating and Air Conditioning**
- ASE A8 Test Prep: **Engine Performance**
- ASE A9 Test Prep: **Light Vehicle Diesel**
- ASE C1 Test Prep: **Automobile Service Consultant**
- ASE G1 Test Prep: **Auto Maintenance and Light Repair**
- ASE-L1 Test Prep: **Advanced Engine Performance Specialist**
- ASE-L2 Test Prep: **Medium/Heavy Vehicle Electronic Diesel Engine Specialist**
- ASE-L3 Test Prep: **Hybrid/Electric Vehicle Specialist**
- ASE-T1 Test Prep: **Gasoline Engines**
- ASE-T2 Test Prep: **Medium/Heavy Diesel Engines**
- ASE-T3 Test Prep: **Drivetrain**
- ASE-T4 Test Prep: **Medium/Heavy Duty Brakes**
- ASE-T5 Test Prep: **Medium/Heavy Truck Suspension & Steering**
- ASE-T6 Test Prep: **Medium Duty Heavy Duty Electrical and Electronic Systems**
- ASE-T7 Test Prep: **Medium/Heavy Truck Service Heating and Air Conditioning**
- ASE-T8 Test Prep: **Medium/Heavy Preventative Maintenance Inspection (PMI)**

# Hybrid Vehicle Technology



**Suitable Audience:** A, B, and C Technicians, Shop Owners/Managers, Service Advisors, Parts Professionals.  
**Course Length:** 16 hrs.

## Course Description:

This course will give an in-depth view and discuss the proper safety procedures when handling hybrid vehicle high voltage circuits.

Participants will be engaged with hands-on activities focusing on the proper diagnostics and testing of high voltage systems such as: the high voltage battery connections and conditioning, high voltage management and analytics, battery diagnostics, motor/generator insulation testing, interlock circuits & vehicle auxiliary systems involved in hybrid vehicle design. These activities are conducted utilizing the proper high voltage-rated equipment and put right into their hands giving participants the access to the tools, knowledge and confidence needed to become a hybrid vehicle professional.

## Course Objectives:

- Recognize the Personal Protection Equipment needed and understand the correct procedures and applications
- Identify different hybrid system platforms along with their components and functions
- Understand proper vehicle shutdown and High Voltage disabling procedures
- Execute the proper hybrid vehicle diagnostics
- Evaluate high voltage battery technology and their components
- Demonstrate high voltage component testing, removal, and replacement

**Training Activities:** Hands-on live vehicle testing, hands-on training aids & access to internal components.

**Course Duration:** 16 CEU



## Award Winning Hybrid Electric Cutaway Trainer

AVI won the 2021 PTEN Innovation Award for the Hybrid Electric Cutaway Vehicle Trainer.

# Hybrid and EV Maintenance

**Suitable Audience:** A, B & C Technicians, Shop Foreman, Shop Owners/Managers, Service Advisors, Parts Professionals & Educators.

**Course Length:** 8 hrs.

## Course Description:

Safety will be reviewed along with proper usage of Personal Protective Equipment (PPE) and when it is to be used. Vehicle type identification leading into covering the basics of hybrid and EV operation. Engaging the learner with a mix of in-shop hands on activities will define maintenance opportunities and create a culture that motivates customers to have their Hybrid or EV serviced at your location. We will explain the wide variety of low voltage system services you should offer as well as provide information on the various high voltage system services to offer. Tools, tips and tricks will be discussed along with many step-by-step processes and critical services which can currently be performed. Highlighted too, will be a variety of hybrid/EV specific procedures for systems such as cooling and fuel services.

## Course Objectives:

- Recognize the Personal Protection Equipment needed and understand the correct procedures and applications
- Learn about the differences in servicing Hybrid and EV braking, cooling, and low voltage systems.
- Understand some of the basic theories of how Hybrids and EVs operate.
- Learn about differences when servicing the Internal Combustion Engines on Hybrid vehicles.
- Identify different hybrid system platforms along with their components and functions.

**Training Activities:** Hands-On Live vehicle, Hands-On Training aids & Access to System Components.

**Course Duration:** 8 CEU





## EV Technology

**Suitable Audience:** A & B Technicians, Shop Foreman, Shop Owners/Managers, Service Advisors, Parts Professionals & Educators.

**Course Length:** 24 hrs.

### Course Description:

Safety will be discussed along with proper usage of Personal Protective Equipment (PPE) and specialty tools required for EV service. This course will cover the types of EV drive systems in use as well as their operation and service needs. Description and operation sections will include E/V drivetrain components, inverter/converter systems, motor types and design differences, air conditioning system designs, cooling systems for the components. Diagnostic procedures and proper tool usage will be covered in depth as the electronic testing tools required for these vehicles are different from those commonly used in shops at this time.

### Course Objectives:

- Recognize the Personal Protection Equipment needed and understand the correct procedures and applications.
- Learn about how the low voltage system interacts with the high voltage systems.
- Learn about how high voltage systems operate. This will include a deep dive on inverters, battery technology, 3 phase motors and more.
- Learn how to quickly and effectively diagnose no starts and other concerns with EVs.
- Learn about charging infrastructure, on board chargers, charging cables, and more.
- Learn about the differences in electrified air conditioning systems.

**Training Activities:** Hands-On Live vehicle, Hands-On Training aids, STEM Aids & Access to System Components.

**Course Duration:** 24 CEU



## 3 Phase Motors

**Suitable Audience:** A, B, C Technicians, Shop Foreman, Shop Owners/Managers, Service Advisors, Parts Professionals & Vocational Instructors.

**Course Length:** 4 hrs.

### Course Description:

This course will take a deep dive into 3 Phase Motors that are being used in today's Hybrids and EVs. It will also cover the basics and what is different about 3 phase motors used in automotive applications versus industrial uses. Topics will include Permanent Magnet designs over the years, RPM limitations and how they are overcome, along with Induction Motors designs. Other topics covered include bearings, brushes, and resolvers. We will also take a look into how and what fails in the different motor designs.

### Course Objectives:

- Understand what it takes to make 3 phase motors work within PHEVs and EVs.
- Learn how to diagnose and test for failures within these systems and what it takes to fix them quickly and efficiently.
- Identify differences in motor designs and the pros and cons of each.
- Gain an understanding of the tools and safety procedures needed to work on these systems.

**Training Activities:** Hands-On Live Vehicle, Hands-On Training aids & Access to System Components.

**Course Duration:** 4 CEU



## EV Battery Technology

**Suitable Audience:** A, B, C Technicians, Shop Foreman, Shop Owners/Managers, Service Advisors, Parts Professionals & Vocational Instructors.

**Course Length:** 4 hrs.

### Course Description:

In this course you will learn about battery safety and the tools needed to safely work with them. Also, you will gain an understanding of the different cell designs as well as different battery chemistries; along with the pros and cons each provides. Learn about what signs to look for when a battery pack is degrading and how best to remedy these failures. Also, learn about battery balancing and what it entails. Understand the impact cooling systems play in long battery life.

### Course Objectives:

- Describe the basic design of a NIMH and Lithium batteries.
- Determine correct safety practices for high voltage battery testing.
- Define how battery cells, modules, and sections are series together.
- Analyze scan data to determine good and bad cells.
- Perform testing-balancing-reconditioning on NIMH batteries.

**Training Activities:** Hands-On Live Vehicle, Hands-On Training aids & Access to System Components.

**Course Duration:** 4 CEU

## Award Winning Electric Vehicle Training Aid



EVa (Electric Vehicle Training Aid)  
by Automotive Video Innovations,

AVI has won a 2022 Motor Top 20 Award for EVa: the Electric Vehicle Training Aid. From the company that brought you the award-winning cutaway hybrid vehicle, we are proud to unveil a totally self-contained, turn-key EV system trainer.

It was specifically designed to teach the fundamentals of high voltage electric vehicle diagnostics in a safe, controlled environment.



## Entry Level Electrical

**Suitable Audience:** B & C Technicians, Shop Foreman/ Lead Technician & Educators

**Course Length:** 24 hrs.

### Course Description:

This session will provide the entry level teammates with the core skills that will allow them to develop into a skilled A-level technician in the future. Practical hands-on training will be performed by the teammate on electrical testing training aids. All learning will be reinforced with hands-on exercises. Electrical testing boards for hands-on testing will be provided during class.

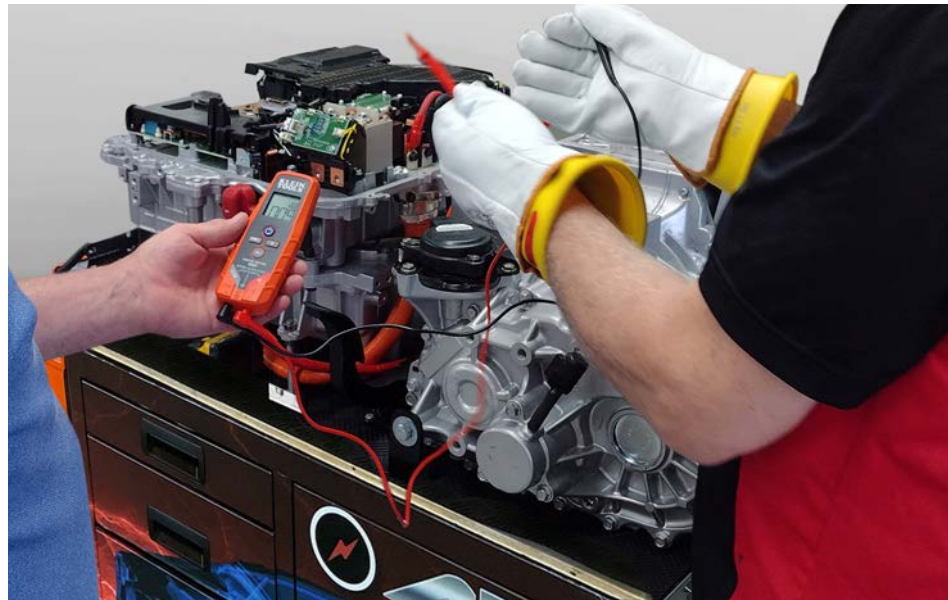
### Course Objectives:

- Gain confidence in how best to utilize your multimeter and all of its different functions.
- Perform real world testing and learn what the results mean.
- Understand the benefits of performing voltage drop testing versus open circuit resistance testing.
- Become familiar with Ohm's Law.
- Understand basic electrical theories.
- Recognize the Personal Protection Equipment needed and understand the correct procedures and applications.

**Training Activities:** Hands-On Training boards.

**Course Duration:** 24 CEU





## EV Inverters

**Suitable Audience:** A, B, C Technicians, Shop Foreman, Shop Owners/Managers, Service Advisors, Parts Professionals & Vocational Instructors.

**Course Length:** 4 hrs.

**Course Description:**

In this course you will learn how inverters, IGBTs, and DC-DC converters operate. You understand how to analyze inverter voltage and amperage waveforms. Along with learning how to measure the high voltage system for isolation faults, evaluate capacitors and develop diagnostic plans for DC-DC converters. You will also gain an understanding of the difference between buck and boost voltages, and learn how to perform testing on high voltage contactors.

**Course Objectives:**

- Describe the operation of an inverter
- Define how an IGBT functions
- Analyze inverter voltage and amperage waveforms
- Measure the high voltage system for isolation faults
- Evaluate capacitors
- Develop a diagnostic plan for DC-DC converters
- Determine the difference between buck and boost
- Perform testing on high voltage contactors

**Training Activities:** Hands-On Live Vehicle, Hands-On Training aids & Access to System Components.

**Course Duration:** 4 CEU



## Intermediate Electrical

**Suitable Audience:** A, B Technicians, Shop Foreman/ Lead Technician, Educators.  
**Course Length:** 16 hrs.

**Course Description:**

This intermediate course is focused on providing a deep knowledge in vehicle electrical circuits along with comprehensive testing of Battery, starting, charging. The participant will be presented with wiring diagrams to perform proper analysis of varied circuits controlled mechanically, conventionally and utilizing more modern logic program control (solid-state) components.

The participants' comprehension of electricity, electrical circuits and their electrical skills will be combined and put to practice on provided vehicle-based training boards that simulate practical testing of all electrical systems utilizing live components and connections as they would find under the hood. Custom hands-on training aids will be used to perform practical electric testing with diagnostic outcomes in mind by building and diagnosing electrical circuits. Practical methodology and training will build opportunities to replicate "real world scenarios" going beyond the basics and preparing participants to better understand electrical circuit diagnostic, repair and implementation. This course has been designed with leveling up your technical knowledge making you the "Go-To" when it comes to Electrical!

**Course Objectives:**

- Gain confidence in how best to utilize your multimeter and all of its different functions.
- Perform real world testing and learn what the results mean.
- Understand the benefits of performing voltage drop testing versus open circuit resistance testing.
- Become familiar with Ohm's Law.
- Understand basic and more advanced electrical theories.
- Recognize the Personal Protection Equipment needed and understand the correct procedures and applications.

**Training Activities:** Hands-On Training aids & Access to System Components.

**Course Duration:** 16 CEU

## Modern Lighting



**Suitable Audience:** A, B, C Technicians, Shop Foreman, Shop Owners/Managers, Service Advisors, Parts Professionals & Vocational Instructors.

**Course Length:** 4 hrs.

### Course Description:

This course covers basic topics such as, Lumen ratings and Kelvin temperatures, to advanced lighting topics such as, FMVSS108 standards and adaptive lighting techniques. The main goal of this class is to gain an understanding of the importance of properly adjusting, diagnosing, and abiding by regulations put in place for modern lighting systems used in cars on the road today.

### Course Objectives:

- Define the difference between candela, lumens, lux, and kelvin temperature
- Measure light output with a Lux meter
- Determine the difference between HID, LED, laser, and halogen lights
- Recognize the difference between projector and reflector lights
- Identify all the different adaptive lighting features

**Training Activities:** Hands-On Live Vehicle, Hands-On Training aids & Access to System Components.

**Course Duration:** 4 CEU



## Lab Scope Usage

**Suitable Audience:** A & B Technicians, Shop Foreman/ Lead Technician, Owners/Managers & Educators.  
**Course Length:** 8 hrs.

### Course Description:

In this hands-on course, you will learn how to set your scope to capture the signals you will use to diagnose faults in today's cars. From gathering preliminary baseline signals to deep diagnostics with pressure waveform we will teach you the processes require to be successful with your scope. We encourage you to bring your lab scope to use in class. Learning how to diagnose with your tools is the best way to learn!

### Course Objectives:

- Gain confidence in how best to utilize your lab scope and all of its different functions.
- Perform real world testing and learn what the results mean.
- Learn about all the different systems you can test with your lab scope and what good waveforms look like compared to faulty ones.
- Become familiar with pressure transducers and all of their applications.
- Understand how and when to integrate lab scope usage into your diagnostic routines.

**Training Activities:** Hands-On Live vehicle & Hands-On Training aids.

**Course Duration:** 8 CEU



# Brake System Service

**Suitable Audience:** B & C Technicians, Shop Foreman/ Lead Technician, Owners/Managers, Service Advisors, Parts Professionals & Educators.  
**Course Length:** 24 hrs.

## Course Description:

This course is designed to ensure proper brake system service on the many systems currently in the industry. Many of these systems are neglected or lack the proper service procedures ensuring longevity as well as the increased performance of the brake system. Detailed overviews and activities will highlight brake system designs, components and integration to active safety systems.

Lack of knowledge of the basic brake system can and will drastically hinder functions of advanced safety systems like Anti-Lock stability control, & even Advance Driver Assist Systems also known as ADAS. This course will provide the knowledge base to build your skill sets in: visual inspection, hydraulic system theory and operation, disc and drum brake systems, service and repair including resurfacing of rotors and drums, understanding friction materials.

Participants will be given a hands-on opportunity while in class to perform proper use of tools demonstrating correct methods of measurements, service and adjustment of parking brake systems, diagnostics of mechanical components of multiple brake systems through training aids, brake line repair and flaring of brake lines, and proper brake bleeding procedures. Don't let the lack of knowledge or procedures be the reason for brake failures.

## Course Objectives:

- Understand brake power assist units
- Relate disc brake systems, diagnostics and repair
- Illustrate the operation of non-ABS brake valves and switches
- Describe anti-lock braking systems, diagnosis and repair
- Learn how to diagnose & repair brake pedal pulsation issues (warped rotors).
- Learn to diagnose & repair low brake pedals and high brake effort concerns.
- Demonstrate quick and proper repair of brake lines.
- Repair brake pulls and drifts.

**Training Activities:** Hands-On Training aids & Access to System Components.

**Course Duration:** 24 CEU

# Advanced Brakes & Stability



**Suitable Audience:** A,B, C Technicians, Shop Foreman/ Lead Technician, Owners/Managers, Service Advisors, Parts Professionals & Educators.  
**Course Length:** 8 hrs.

## Course Description:

This course will cover anti-lock braking, traction control and stability systems which on modern cars work together to give advanced driver assist systems (ADAS). Component level identification and testing will be covered including operational characteristics of individual ABS and ADAS designs.

Be a master at diagnosing and repairing those pesky brake and traction control lights.

## Course Objectives:

- Learn how the ABS and traction control systems gather information from different sensors throughout the car and process all of that data.
- Understand how ABS and traction control systems are integrated into stability control systems and ADAS features.
- Learn to effectively and efficiently diagnose symptoms of faulty sensors within these systems.

**Training Activities:** Hands-On Training aids & Access to System Components.

**Course Duration:** 8 CEU



## Brake Courses and AVI's Brake Training Aids

Get the most out of your training by combining AVI's On Demand courses with a Brake Cube Training Aid. Students will be able to get a close look at all the components with this hands-on training aid!



# Air Conditioning Service

**Suitable Audience:** A, B, C Technicians, Shop Foreman/ Lead Technician, Owners/Managers, Service Advisors, Parts Professionals & Educators.  
**Course Length:** 16 hrs.

**Course Description:**

This course will cover all aspects of modern air conditioning systems R134 and R1234yf alike. This course is an immersion of air conditioning principles, refrigeration cycle, as well as different system design and functions along with the components involved will be discussed in complete detail. Get an up close view of said components and a functional A/C system through our award winning “Chillinator” training aid. Proper HVAC service, diagnostics & testing techniques & equipment will be demonstrated and put in participants hands allowing them to demonstrate and evaluate any system failures and courses of action. Participants will be exposed to the multiple methods and use of system leak testing tools to provide the most precise and efficient results. This course will require the use of the store’s A/C machine during class. Participants will be able to benefit from all training within a classroom setting. Staying cool will have a new meaning after you complete the course!

**Course Objectives:**

- Explain the different components that make up an HVAC system
- Describe common causes of failures of HVAC components
- Explain proper HVAC testing procedures
- Describe the difference between R-134a and R-1234yf systems
- Understand the difference between conventional and electric vehicle HVAC systems
- Explain when a scan tool can help

**Training Activities:** Hands-On Training aids & Access to System Components.  
**Course Duration:** 16 CEU



## Award Winning Air Conditioning Service AC “Chillinator” Training Aids

The Chillinator contains all the major electrical components of a Hybrid or EV’s Air Conditioning system, including a 3 phase compressor, built-in inverter, a 12 volt battery, thermal expansion valve, a receiver-drier, blower motor and easily accessible charge ports. The Chillinator is also available with a turnkey training program on Hybrid and Electric vehicles.



# Hybrid & EV Air Conditioning Service



**Suitable Audience:** A, B, C Technicians, Shop Foreman/ Lead Technician, Owners/Managers, Service Advisors, Parts Professionals & Educators.  
**Course Length:** 8 hrs.

**Course Description:**

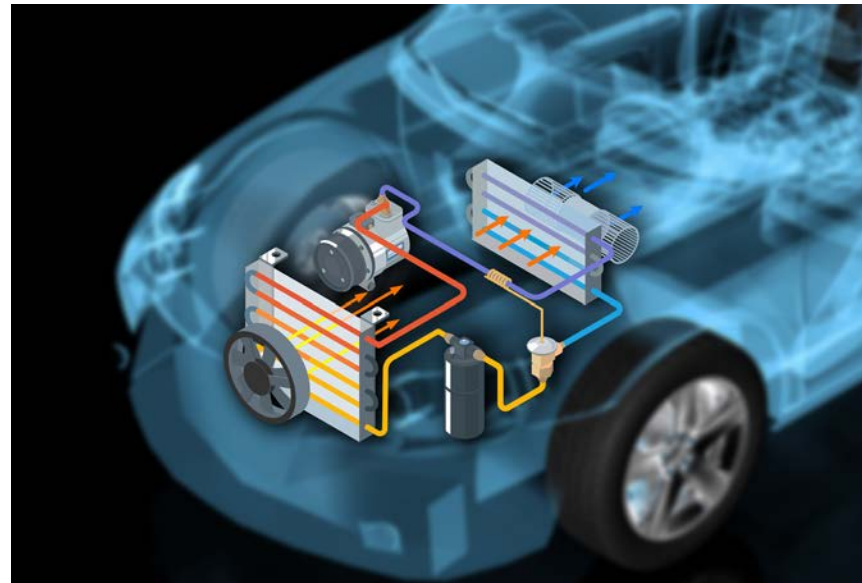
This course will cover the design, operation, and testing of A/C systems on hybrid and electric vehicles. These systems can come in many forms of compressor drive from belt only, belt/electric combination to full electric in either AC or DC voltage supply. A discussion of the refrigeration cycle will be included. Operation, testing, and diagnostics of these systems will be the bulk of the course time.

**Course Objectives:**

- Identify the different ways that Hybrid and EVs air conditioning systems are powered.
- Learn about the advances that have been made to make these air conditioning systems extremely efficient.
- Understand the impact choosing the correct refrigerants and oils can have on Hybrids and EVs.
- Learn how heat pump systems function.
- Gain an understanding of how air conditioning systems can be used to regulate thermal load of batteries.

**Training Activities:** Hands-On Training aids & Access to System Components.  
**Course Duration:** 8 CEU





## Cooling Systems and Coolants

**Suitable Audience:** B & C Technicians, Shop Foreman, Shop Owners/Managers, Service Advisors, Parts Professionals & Vocational Instructors.

**Course Length:** 4 hrs.

### Course Description:

This class covers basic cooling systems features and functionality. Topics discussed will include how thermostats, water pumps, radiator caps, and more operate. You will also get insight into quick and effective diagnostics of cooling system components along with the proper tools needed to complete the job right the first time. Also, you will learn about different types of coolant and what advantages each style provides.

### Course Objectives:

- Understand how cooling system components operate together to allow for increased engine performance and efficiency.
- Learn about different types of coolant and the pros and cons associated with each.
- Learn about the tools needed to quickly and efficiently diagnose faulty cooling systems.
- Identify safety concerns when working with cooling systems.

**Training Activities:** Hands-On Live Vehicle, Hands-On Training aids & Access to System Components.

**Course Duration:** 4 **CEU**



## Medium & Heavy Duty Cummins 6.7, L9 & X15

**Suitable Audience:** A & B Technicians, Shop Foreman/ Lead Technician, Owners/Managers, & Educators.  
**Course Length:** 24 hrs.

### Course Description:

This class provides everything you need to be successful in diagnosing issues on the Cummins medium and heavy duty engine family. This course covers detailed overviews of design and function of mechanical and electrical and fuel systems along with the necessary knowledge needed to properly diagnose, program and calibrate these fuel systems.

You will be provided with proper description and navigation of the Cummins engine families. Integrate your lab scope to validate engine and fuel system failures faster and easier than before. We will share procedures to help you and your shop save precious time when diagnosing these engines and highlight specialty tools such as tools to replace lifters and camshafts without cylinder head removal.

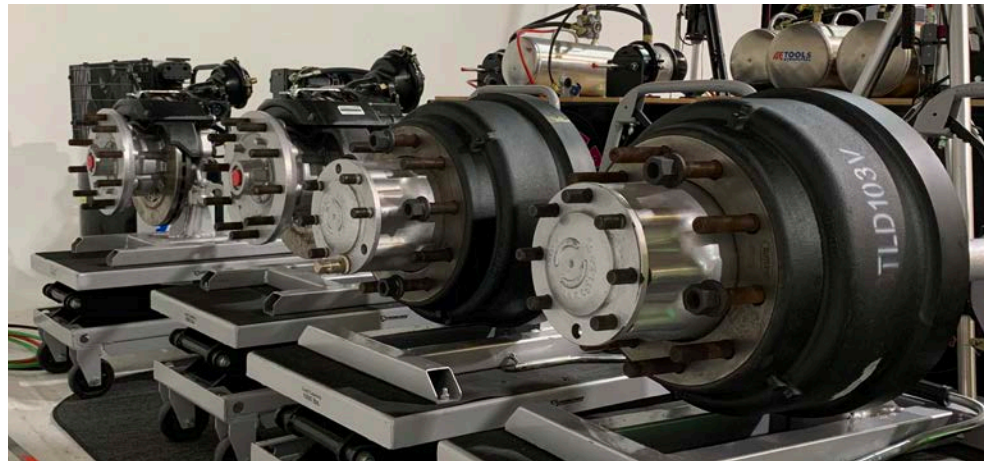
With Cummins moving to hydraulic lifters in 2019 and the new 6.7 engines, be sure you stay up to date with all the tools, procedures and specs to get the job done. Participants will be given the hands-on opportunity to utilize said tools and demonstrate the procedures in this multi-day experience.

### Course Objectives:

- Learn about what causes high pressure pump failures.
- Understand how to test for fuel injector issues, and how to perform fuel testing.
- Learn how to perform engine diagnostics and repair quickly and efficiently.
- Understand the intricacies of emission system diagnostics.
- Gain an understanding of how SCR and DPF systems operate.
- Learn how to perform Nox sensor testing.
- Gain insights into effectively utilizing your Cummins Insight scanner.

**Training Activities:** Hands-On Live vehicle, Hands-On Training aids & Access to System Components.

**Course Duration:** 24 **CEU**



## Heavy Duty Air Brake Workshop

**Suitable Audience:** A, B, C Technicians, Shop Foreman/ Lead Technician, Owners/Managers, & Educators.  
**Course Length:** 24 hrs.

### Course Description:

Air brake systems can be frustrating, let our instructor show you how to conquer air brake concerns with this class-room friendly, hands-on course. Using our one-of-a kind air brake training aid system the participants will learn all the basics of connections, flow and control. Participants will be given the opportunity to build a fully functional air brake system right in class. This course will also shed light on “faulty” circuits to test, diagnose, evaluate and repair the issue once found onsite. Multiple faults and many diagnostic concepts will be covered so you’ll be ready for any air brake system repairs. ABS, trailer braking, and Trailer ABS systems will also be covered in depth discussing the importance of proper service and how it influences advanced systems like ABS and the newer stability and Advance Driver Assist Systems also known as ADAS.

### Course Objectives:

- Understand the operation of air-brake components
- Communicate the operation of each component
- Inspect a system for needed service
- Knowledge of proper brake adjustments
- Communicate how Auto and manual slack adjuster’s function
- Relate how the components function

**Training Activities:** Hands-On Training aids & Access to System Components.  
**Course Duration:** 24 CEU



## Heavy Duty Cummins Insight Scanner & QuickServe Diagnostics

**Suitable Audience:** A & B Technicians, Shop Foreman/ Lead Technician, Owners/Managers, & Educators..  
**Course Length:** 8 hrs.

### Course Description:

Cummins engine series is extremely popular and is used in many medium and heavy duty applications. With the advent of complex emission systems even these engines suffer failure. Cummins continually improves these systems and the best way to analyze these engines is with the Cummins Insight. Will show you the best way to diagnose most any failure using this OE tool. As we know, non-OE level tools may not offer the same capabilities of the OE tool. Cummins Insight works with QuickServe to ensure the quickest and most accurate diagnostic routines. Quickserve will be covered also.

**Training Activities:** Hands-On Live vehicle, or virtual vehicle..  
**Course Duration:** 8 CEU





## Heavy Duty – Emissions and After Treatment Systems

**Suitable Audience:** A, B, and C Technicians, Shop Foreman/ Lead Technician, Shop Owners/Managers & Educators. **Course Length:** 8 hrs.

### Course Description:

Heavy Duty Emission systems have grown more complicated in the last few years, are you up to date? The latest information on the systems and their operation & diagnosis. Covering all systems from the engine to the after treatment systems you'll be ready to fix them all. integration of engine & emissions system components is very important to ensure trouble-free operation. In order to properly diagnose check engine lights and DTCs, you must diagnose the root cause, not just the result.

### Course Objectives:

- Investigate high pressure pump failures.
- Learn about injector Issues and how to effectively test them.
- Understand the intricacies of emission system diagnostics.
- Gain an understanding of how SCR and DPF systems operate.
- Learn how to perform Nox sensor testing.

**Training Activities:** Hands-On Live vehicle if available & Access to System Components.

**Course Duration:** 8 CEU

## Ford IDS & FDRS Scanner Diagnostics

**Suitable Audience:** A, B, & C Technicians, Shop Foreman/ Lead Technician, Shop Owners/Managers & Educators. **Course Length:** 8 hrs.

### Course Description:

The latest Ford Scanner package has many great features to be explored. Most techs just don't have the time to explore. This course will give you the insight you need to unlock the power of your FDRS. Learn how and when to use the features Ford has given on this new platform. Programming and other features of this cloud based tool will be extensively covered. Learn by doing in this interactive hands-on class.

**Training Activities:** Hands-On Live vehicle. **Course Duration:** 8 CEU

## GM MDI Scanner Diagnostics

**Suitable Audience:** A, B, and C Technicians, Shop Foreman/ Lead Technician, Shop Owners/Managers & Educators. **Course Length:** 8 hrs.

### Course Description:

General Motors factory level scanning may seem simple, but it is deceptive. Let us show you how to gather data and use the tool GM has written into the platform to accurately diagnose any drivability concern on GM vehicles. Learn by doing in this interactive hands-on class.

**Training Activities:** Hands-On Live vehicle, Hands-On Training aids. **Course Duration:** 8 CEU

## Chrysler WiTech Scanner Diagnostics

**Suitable Audience:** A, B, and C Technicians, Shop Foreman/ Lead Technician, Shop Owners/Managers & Educators. **Course Length:** 8 hrs.

### Course Description:

Secured gateway is easy to handle with this OE Tool. Network stability, programming requirements, and live data all presented in ways unlike other tools. We will show you live on-car in this hands-on class how to access the use of the tools within the WiTech scanner.

**Training Activities:** Hands-On Live vehicle. **Course Duration:** 8 CEU

## ADAS (Advanced Driver Assistance Systems)

**Suitable Audience:** ADAS (Advanced Driver Assistance Systems).  
**Course Length:** 8 hrs.

### Course Description:

Explore complexities of ADAS technologies found in modern vehicles, covering calibration, sensor diagnostics, and troubleshooting for systems like adaptive cruise control, lane-keeping assist, and emergency braking.

### Course Objectives:

- Gain the knowledge needed to perform successful ADAS calibrations.
- Learn about how cameras, radars, steering, suspension, and braking systems are all integrated to make ADAS a reality.
- Understand how LiDAR systems are used to assist ADAS systems.
- Gain an understanding about how lane keep assist systems operate.
- Identify the correct tools needed to accurately complete ADAS calibrations.

**Training Activities:** Hands-On Live vehicle, Access to System Components

**Course Duration:** 8 CEU

## Alignment Angles

**Suitable Audience:** B, C Technicians, Service Advisors & Educators.  
**Course Length:** 4 hrs.

### Course Description:

Focuses on principles and techniques of wheel alignment, including camber, caster, and toe angles adjustment, crucial for vehicle handling and tire longevity. Due to the increase in vehicle accidents and damage on today's vehicles, it is critical for the alignment technician to understand diagnostic alignment angles, like SAI, included angle, tow-out on turns, set back, and thrust angle to see if the vehicle is even able to be properly aligned.

### Course Objectives:

- Perform a pre-alignment inspection
- Interpret alignment angles
- Determine proper alignment procedure
- Recognize scrub radius changes
- Determine tow out on turns
- Analyze vehicle symmetry

**Course Duration:** 4 CEU



## Cummins Generations 5.9L

**Suitable Audience:** A, B, C Technicians, Shop Foreman, Shop Owners/Managers, Service Advisors, Parts Professionals & Vocational Instructors. **Course Length:** 16 hrs.

### Course Description:

This course will illustrate the differences of the 5.9 Cummins engine family throughout the years. It will take a deep dive into topics like common failures, injection pumps, injectors, turbos, and what to look for when properly diagnosing a Cummins engine. Also topics like setting valve lash, and camshaft servicing will be covered. You will gain an understanding of the advantages of common rail technology and what it allows us to do with modern diesel engines.

### Course Objectives:

- Describe the operation of injection pumps and injectors.
- Define how a turbocharger operates and the differences in design throughout the years.
- Analyze symptoms of failing components on Cummins engines and how best to fix them.
- Determine the differences between common rail injection and mechanical injection systems.
- Learn about common failure points and how to prevent catastrophic failures.
- Perform testing on fuel systems and understand the importance of using the correct fuels.

**Training Activities:** Hands-On Live Vehicle, Hands-On Training aids & Access to System Components.

**Course Duration:** 16 CEU



## Shop Management

### • **Service Advisor training** - Course Length: 2 hrs.

Gain the essential skills to excel as a service advisor. This course covers the key elements of successful communication, enabling you to establish strong connections with both customers and technicians.

As a service advisor, effective communication is paramount to building trust, providing exceptional customer experiences, and ensuring smooth interactions with technicians. Learn practical strategies for engaging with customers in a customer-centric manner, understanding their needs, and delivering solutions that exceed their expectations.

- Learn how to foster seamless communication with technicians, ensuring clear and efficient service workflows.
- Explore techniques to relay customer requirements accurately and facilitate open dialogue, allowing for optimal collaboration between service advisors and technicians.
- comprehensive blueprint to navigate the complexities of service advisor communication.
- Be equipped to create a positive impact on both your customers' experiences and your service team's effectiveness.

### • **Hire the Best Forget the Rest** - Course Length: 2 hrs.

Ever feel like you have a revolving door for employees? Do you fear hiring new employees because at least with your current staff, you know what you have? Not sure how to attract the right applicants? Or wonder why the quality people did not stay?

Probably one of the most important and least understood aspects of business is talent acquisition. Learn to be more successful in attracting qualified applicants when you improve your employment ads, job applications, candidate assessments, and interviews.

Good talented management extends the life cycle of an employee by creating an environment and culture that breeds success. Create expectations with job descriptions based on job activities and implement a two-way review process for employee and employer.

- Learn what it takes to find good employees and how to keep them.
- Understand how to write effective and attractive help wanted ads.
- Learn how to create a thriving and successful culture in the workplace.

### • **Preparing Your Shop for EVs** - Course Length: 2 hrs.

Previous advancements in vehicle technology have NOT impacted your store operations or your ability to be profitable. The electric vehicle changes that.

This business class is designed to look at everything differently. We will cover what the differences will be in marketing, talent, technical training, facility and equipment, client communication, and key performance indicators to be profitable in this new era.

There are important elements to being successful as an Electric Vehicle service center. Learn to assess and plan for:

- Branding – how will consumers know your level of expertise
- Marketing – is there a market to serve? How does it change and when
- Hiring or developing the technician specialist
- Technical knowledge and resources
- Facility requirements and updates
- Service bay equipment investments
- Service advisor specialization for Electric Vehicle maintenance and repair
- Your Electric Vehicle service impact on your goals, KPIs, ROI, and profits



## Gasoline **Direct Injection (GDI)**

**Suitable Audience:** A, B, C Technicians, Shop Foreman, Shop Owners/Managers, Service Advisors, Parts Professionals & Vocational Instructors.

**Course Length:** 4 hrs.

### **Course Description:**

This course will cover an in depth look at high pressure fuel pumps and direct unit injectors. You will learn about the differences in troubleshooting these systems as compared to port fuel injection systems. Also, gain an understanding about how GDI can optimize both increased power and fuel efficiency. You will also gain an understanding of the drawbacks and additional maintenance concerns associated with GDI, and how port injection is making its way back into the picture to solve some of these concerns.

### **Course Objectives:**

- Understand the operation of high pressure fuel injection pumps and injectors.
- Learn about the tools and safety concerns associated with GDI systems.
- Learn how to quickly and efficiently diagnose these systems.
- Understand the benefits of GDI systems and what they mean in terms of performance, fuel economy, and emissions.

**Training Activities:** Hands-On Live Vehicle, Hands-On Training aids & Access to System Components.

**Course Duration:** 4 CEU



## Emissions

**Suitable Audience:** A & B, Technicians, Shop Foreman/ Lead Technician & Educators.  
**Course Length:** 8 hrs.

**Course Description:**

Explores emissions control systems in vehicles, including catalytic converters, exhaust gas recirculation (EGR), and oxygen sensors, with a focus on emission testing and diagnostics.

**Course Objectives:**

- Learn about the different emissions created during the combustion process and how they are mitigated through different emission technologies.
- Gain a deep understanding of the EGR system operation and what symptoms are present when various failures occur.
- Understand the importance of the PCV system and what happens when it fails.
- Learn how to quickly and efficiently diagnose failures within the emission control systems.
- Understand the role of the oxygen sensors (air fuel sensors) and their relation to a properly functioning and long lived catalytic converter.

**Training Activities:** Hands-On Live vehicle, Access to System Components.

**Course Duration:** 8 CEU



## Catalyst Efficiency

**Suitable Audience:** A & B, Technicians, Shop Foreman/ Lead Technician & Educators.  
**Course Length:** 8 hrs.

**Course Description:**

Explores emissions control systems in vehicles, including catalytic converters, exhaust gas recirculation (EGR), and oxygen sensors, with a focus on emission testing and diagnostics.

**Course Objectives:**

- Learn about the different emissions created during the combustion process and how they are mitigated through different emission technologies.
- Gain a deep understanding of the EGR system operation and what symptoms are present when various failures occur.
- Understand the importance of the PCV system and what happens when it fails.
- Learn how to quickly and efficiently diagnose failures within the emission control systems.
- Understand the role of the oxygen sensors and their relation to a properly functioning and long lived catalytic converter.
- Gain an understanding of diagnosing emissions systems with a 5-Gas Analyzer.

**Training Activities:** Hands-On Live vehicle, Access to System Components..

**Course Duration:** 8 CEU



New Scan Tool

Testing Techniques

Using Your Launch X431

Throttle III

Course Length: 8 hrs.

Course Description:

Making quicker and more accurate repairs means more money in your pocket, and your scan tool plays a major role in those repairs. AVI Director of Training Tom Rayk shows you the features your scan tool should have to make your diagnostic life easier.

Tom uses the Launch X431 Throttle III scan tool, but any scan tool used on today’s vehicles should have many of the features discussed in this program.

Topics Covered Include:

Course Objectives:

- Understanding the Importance of C.A.N. FD Compliance
- The Value of the Demo Mode in Scan Tool Training
- Information Resources Available through the Scan Tool
- Why Frequent Updates are Necessary
- How the Reporting Function Can Help Your Bottom Line

Training Activities: Hands-On Live vehicle..

Course Duration: 8 CEU

X-431 Throttle III is Wi-Fi enabled and advanced scan tool with an upgraded all-in-one Smartlink VCI. ADAS calibration, Truck diagnosis, Remote diagnostic, OE-level vehicle diagnosis, IMMO functions, and more.



CAN & FCAN

Networks

Suitable Audience: A & B, Technicians, Shop Foreman/ Lead Technician & Educators.

Course Length: 8 hrs.

Course Description:

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. 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.

Course Objectives:

- 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

Training Activities: 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..

Course Duration: 8 CEU



## Misfire **Diagnos**tics

**Suitable Audience:** A, B, & C Technicians, Shop Foreman, Shop Owners/Managers.  
**Course Length:** 16 hrs.

**Course Description:**

Focuses on diagnostic techniques and tools required to identify and address engine misfires effectively, which can impact performance and emissions.

**Course Objectives:**

- Learn about the different types of misfires and how the computer control systems and engines react to them.
- Learn how to quickly and efficiently identify each type of misfire.
- Understand the impact each type of misfire will have on the life of the catalytic converter and the engine.
- Make the most of your scan tool and lab scope features and functionality to accurately diagnose problematic misfires.

**Training Activities:** Hands-On Live Vehicle & Access to System Components.

**Course Duration:** 16 CEU

## Diesel **Vehicle Training:**

• **Cummins**

**Course Duration:** 8 CEU

• **PowerStroke**

**Course Duration:** 8 CEU

• **Duramax**

**Course Duration:** 8 CEU

**Suitable Audience:** A, B, C Technicians, Shop Foreman, Shop Owners/Managers, Service Advisors, Parts Professionals & Educators.

**Course Length:** 8 hrs. each.

**Course Descriptions:**

Each of these classes will cover general topics concerning diesel fuel testing and diagnostics along with information specific to each modern diesel engine family found in domestic ¾ ton and 1 ton pickups. Topics covered on each engine will include cooling systems, fuel systems, emissions management systems, and engine architectures. Diagnostic mindsets covered will include driveability concerns, no starts, and common failures within emissions systems.

Be sure to enroll in our modern diesel engine classes to keep your shop up to date with the latest in diesel engine technologies and to not miss out on these great business opportunities for your shop.

**Course Objectives:**

- Diagnose and test fuel systems including low and high pressure fuel systems, fuel injectors, fueling controls and inputs.
- Learn the importance of quality diesel fuel testing.
- Gain an understanding of the role cooling systems play in modern diesel engines.
- Learn how EGR systems operate and what can go wrong with them.
- Understand the importance of SCR & DEF systems and learn how to diagnose them quickly and efficiently.
- Identify causes and effects of failures in DPF systems.

**Training Activities:** Hands-On Live vehicle.

**Course Duration:** 8 CEU each





## First Responders Safety for Hybrid & EV Vehicles

**Suitable Audience:** First Responders.  
**Course Length:** 8 hrs.

**Course Description:**

Essential training for first responders to safely and effectively handle emergency situations involving hybrid & EV vehicles, covering topics like vehicle extrication, crash response, and hazardous material handling.

**Training Activities:** Hands-On Live Vehicle, Hands-On Training aids & Access to System Components.  
**Course Duration:** 8 CEU



## Heavy Duty Truck Maintenance

**Suitable Audience:** A, B, C Technicians, Shop Foreman, Shop Owners/Managers, Service Advisors, Parts Professionals & Vocational Instructors.  
**Course Length:** 8 hrs.

**Course Description:**

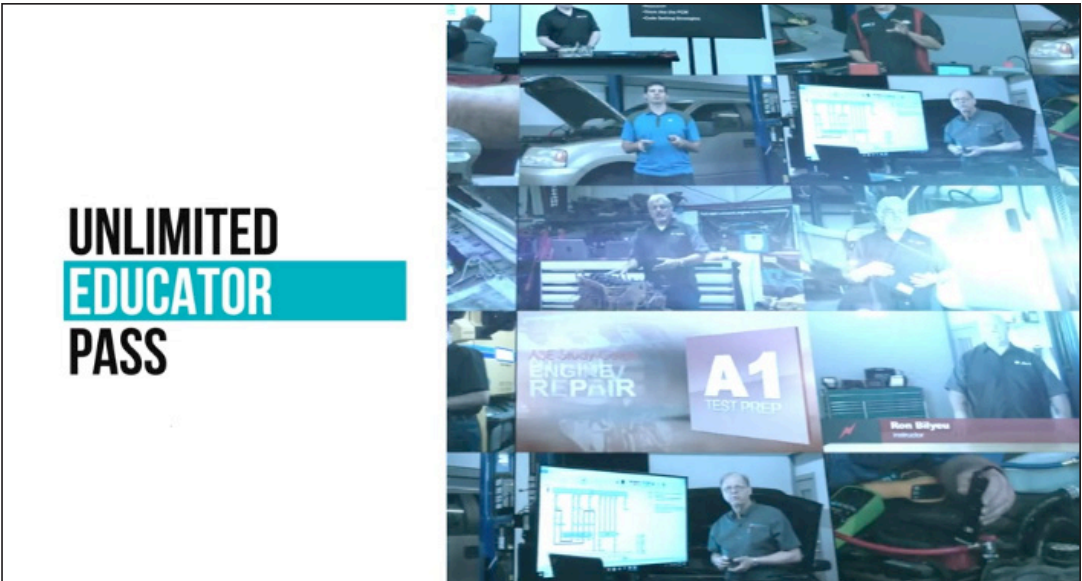
This class will cover how to implement a successful maintenance program to get the most out of your fleet of trucks. This course will cover all aspects of maintenance and what systems to keep a close eye on such as brakes, chassis components, wheels and tires, fifth wheel hitch concerns, engine and fuel system needs.

**Course Objectives:**

- Learn what to look for and when to address maintenance concerns.
- Learn what tools are needed for properly maintaining heavy trucks.
- Stay up to date on new DOT regulations.
- Learn how to examine your shop's maintenance schedule and how to adjust it for optimal truck performance and service life.

**Training Activities:** Hands-On Live Vehicle, Hands-On Training aids & Access to System Components.  
**Course Duration:** 8 CEU





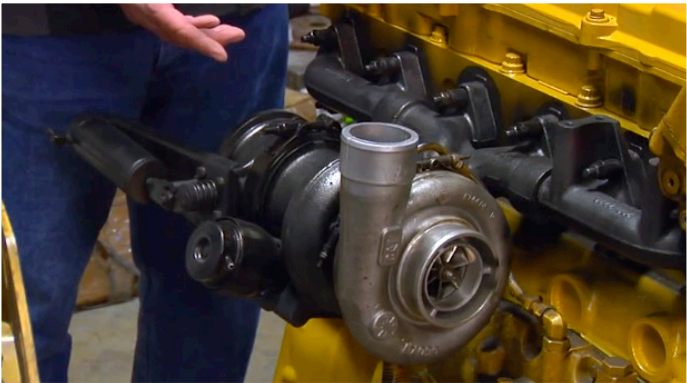
# Unlimited Educator Pass

**Course Descriptions:**  
Over 1000 hours of Instructor-Led video training including ASE Test Prep, Engine Performance, Electrical, Brakes, Suspension & Steering, Maintenance & Light Repair, Hybrid, diesel, alternative fuels, driver assisted technology and more to compliment your curriculum.

**Course Objectives:**  
Unlimited seats for your students. \*One location per purchase

- Instructors can assign courses and track & monitor student progress. Use for extra credit/extra help.
- Students can watch courses, take and re-take tests as often as they like, print certificates of completion and create a resume-like portfolio to take with them when they graduate.
- Approved for NATEF/ASE Education Foundation CE Credits.

AVI is an ASE Accredited training provider.





# LIVE TRAINING

## Vehicle Manufacturer Specific Training

- **Chevy Bolt**  
Course Duration: 8 CEU
- **Ford Mach-e**  
Course Duration: 8 CEU
- **Ford Lightning**  
Course Duration: 8 CEU
- **Nissan Leaf**  
Course Duration: 8 CEU
- **Toyota Sienna Hybrid**  
Course Duration: 8 CEU
- **Toyota Prius Hybrid**  
Course Duration: 8 CEU
- **Tesla Family**  
Course Duration: 8 CEU



**Suitable Audience:** A, B, C Technicians, Shop Foreman, Shop Owners/Managers, Service Advisors, Parts Professionals & Educators. **Course Length:** 8 hrs. each.

### Course Description:

Vehicle-specific courses focusing on the unique features, diagnostics, and maintenance procedures for each vehicle platform. You will gain insight into what is unique about each vehicle platform's design and operation. Also, you will learn about what aspects of each vehicle are similar to others on the market today.

### Course Objectives:

- Learn the ins and outs of these modern electrified vehicles.
- Gain an understanding of what is similar and different to other vehicles on the roads today and how these vehicles can affect your bottom line.
- Learn about specific shutdown procedures, tools, and safety equipment needed to successfully service these vehicles.
- Identify what it takes to keep these vehicles on the road for many miles to come as well as their specific maintenance requirements.

**Training Activities:** Hands-On Live vehicle.

**Course Duration:** 8 CEU each



## Coming Soon

Coming Winter 2023  
**Scanner Diagnostics**

Spring 2024  
**Audi e-tron**  
**Modern Brakes**

Spring 2024  
**Heavy Duty Bus A/C Systems**

Summer 2024  
**Heavy Duty International**  
**Scan Tool Diagnostics**  
**Chevy Blazer EV**



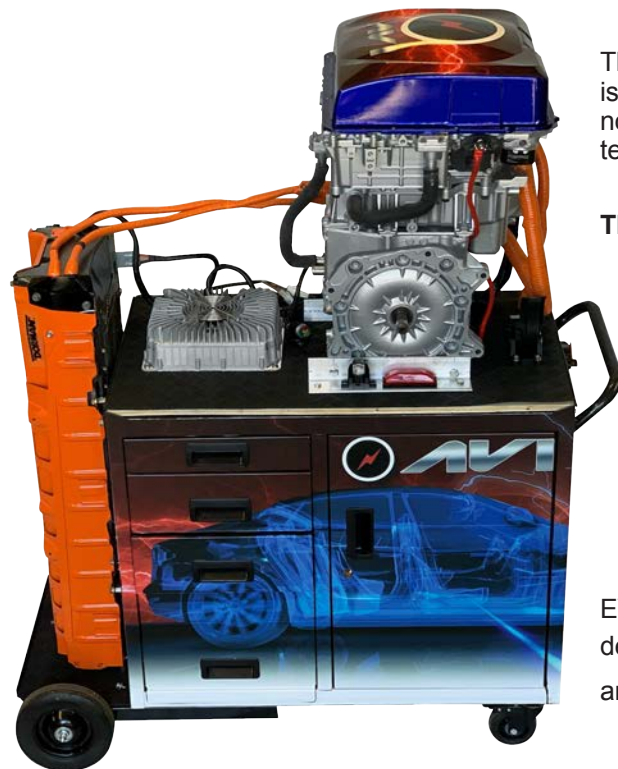
## Advanced Training Aids



AVI recieved the prestigious 2022 ASE Training Managers Council (ATMC) Award for our Hybrid EV Technologies Program, a comprehensive blend of On Demand and On-Site training. The award was presented to AVI at AAPEX in Las Vegas.

## EVa The Electric Vehicle Training Aid - **NEW! 2nd Generation**

SKU: EVA-1



There are many advantages to using a compact training tool when space is an issue. With EVa, there is no need for an entire vehicle! There will be no obstructing parts or covers so you can access the area you need for testing, diagnosing and problem solving. Hands-on made easy!

### THIS TRAINING AID INCLUDES:

- NMH Battery Pack for safety
- Reversible 3 Phase Motor
- Traction Inverter
- C.A.N. Software
- Charging controller
- Regenerative Braking
- Liquid Coolant System
- Built-in Faults & Student Worksheets

EVa comes with a year subscription of curriculum. It includes slide deck with instructor notes, videos, worksheets, test questions and answers.



## Hybrid Electric Cutaway Vehicle Trainer

SKU: CUTAWAY-1



AVI's Hybrid Electric Cutaway Vehicle Trainer is a fully operational vehicle developed for static and active training scenarios. There are secondary, de-energized high voltage components such as an additional battery, inverter, and motor generator for introductory practical exercises.

### TRAINING COMPONENTS

- Electricity Fundamentals
- EV / Hybrid Safety
- HV Battery Technologies
- Regenerative Braking
- EV Cooling Systems
- Remote-control Faults with Student Worksheets



### Award Winning Hybrid Electric Cutaway Trainer



AVI won the 2021 PTEN Innovation Award for the Hybrid Electric Cutaway Vehicle Trainer.







## Hybrid & Electric Vehicle Test kit

Get the most out of your training by combining AVI's On Demand courses with a Brake Cube Training Aid. Students will be able to get a close look at all the components with this hands-on training aid!

SKU:AVI-HV-TOOLKIT

Great package of essential HEV testing equipment including:

- 1 Milli-Ohm Meter
- 1 Insulation Resistance Tester (Mega-Ohm Meter)
- 1 Cat III 1,000V DVOM (Compact Meter)
- 1 Fluke Proving Unit
- 1 2-Pole Voltage & Continuity Tester
- 1 Fluke 1503 Insulation Tester
- 1 Pair 0/1000V Test Gloves



All securely packaged in an orange, high-impact resistant case

## Diesel Fuel Test kit

If you have had a diesel fuel component fail under warranty you need this test kit! One of the biggest concerns in the diesel repair industry is fuel quality. Any diesel will suffer repeated failures if the fuel has issues. Now there is a kit that can be used to check these important

### Kit Contents:

- Case with Safety Foam Insert
- Diesel Hydrometer / API Spec Charts For Temp Correction
- Results Chart
- DEF Refractometer
- Diesel Test Fluid with Dropper Bottle
- Liquid Transfer Dropper
- Fuel Sample Cylinder (50mL)
- Diesel fuel training course (\$100 value)



## Training Aids

### Brake Cube Self-Contained Brakes Training Aid



With this compact, customizable training aid, an instructor doesn't need to put a car on the lift to demonstrate automotive brake system operations or repairs.

No need to remove wheels/tires. Everything is out in the open, easy for all to see.

One of the best features of the Cube is the instructor's ability to interchange the Cube's components to suit each class's individual needs.

Students will learn the principles of ABS, proper master cylinder and brake line bleeding procedures, as well as all the functions of a modern automotive braking system.

The training aid comes with a year subscription of curriculum. It includes slide deck with instructor notes, videos, worksheets, test questions and answers.



### Brake Cube Appears in ASE Test Prep Course

AVI Instructor uses the Brake Cube in the latest version of the ASE A-5 Automotive/Light Truck Brakes Test Prep Program.



## LAUNCH: X-431 Throttle III

SKU: 301190720

X-431 Throttle III is Wi-Fi enabled and advanced scan tool with an upgraded all-in-one Smartlink VCI. ADAS calibration, Truck diagnosis, Remote diagnostic, OE-level vehicle diagnosis, IMMO functions, and more.

### FEATURES

- OE-level U.S. vehicle coverage as well as Asian, European coverage from 1996 and newer
- Smartlink allows for rapid diagnostics of light, medium, and heavy-duty vehicles
- QC quick charge technology (Battery Charges Fully in 2.5 to 3 hours)
- Optional ADAS calibration application to calibrate LDW, RCW, AVM, NV, BSD, and ACC system accurately.
- Guided VW&AUDI functions
- OE-Level bi-directional functionality
- Support communication protocols CAN/CAFD/DoIP and automotive communication standards J/D-PDU/RP1210
- TECH 2 TECH remote diagnosis and technician collaboration
- Vehicle health report feature gives comprehensive status on all onboard systems of the vehicle
- Auto Detect VIN to access vehicle info within seconds
- OE vehicle approved Security Gateway access by FCA certified NEW
- Code Assist by Identifix, access most common fixed and repair solutions with corresponding DTC (NEW)
- Monitors vehicle's voltage by real-time displaying the data during diagnosing NEW
- Topology module mapping overview virtually the all-systems communication status (NEW)
- "NEW" Pin detection function to detect pin volt, data rate, and protocols.



## Award Winning Air Conditioning Service AC "Chillinator" Training Aids



In the fast-paced world of automotive innovation, achieving excellence is not just a goal, it is a relentless pursuit. Today, we are thrilled to announce that AVI has won a MOTOR's Top 20 award for the third consecutive year, and this time it's all about our latest star, The Chillinator.

The Chillinator, our latest training aid has been turning heads and revolutionizing the market. Its cutting-edge features have made the lives of both automotive students and technicians all that much easier by providing a product that can be used to teach automotive air conditioning concepts used on modern vehicles. Students and working technicians alike will enjoy this portable and totally self-contained unit built to reflect modern A/C technology. The Chillinator contains all the major electrical components of Hybrid and EV Air Conditioning systems, including 3-phase compressor, built-in inverter, 12-volt battery, thermal expansion valve, receiver-drier, blower motor, and easily accessible charge ports. The Chillinator is also available with a turnkey training program on Hybrid and Electric vehicles.

### This Training Aid includes:

- 3 Phase Compressor
- Built-in Inverter
- A 12 Volt Battery
- Thermal Expansion Valve
- A Receiver-Drier
- Blower Motor
- Charge Ports
- Turnkey Training Program on Hybrid and Electric vehicle





## Training Aids **FOr Educators** ATS Tools eTrainer Jr. Educator's Kit

SKU: ETRAINER-JR-KIT

The ATS Tools: eTRAINER JR hands-on training simulator will cover the operation and testing of basic to advanced electronic circuits. This training program provides the student with a complete step-by-step course that will enable the student to understand what the voltage measuring instrument is conveying to the technician.

### Kit Includes:

- Complete electrical training program includes series, electrical circuits, worksheets, & more
- 10 eTRAINER JR's
- 10 Fault Block Kits
- 10 Power Supplies
- 1 eTRAINER JR Manual
- Custom Pelican Air Carry Case with retractable extension handle and quiet rolling stainless-steel bearing wheels



### Training Functions Available:

- |                                    |  |
|------------------------------------|--|
| • Series Circuit Testing           | • Crankshaft Position Sensor Circuit                 |
| • Parallel Circuit Testing         | • Camshaft Position Sensor Circuit                   |
| • Series-Parallel Circuit Testing  | • Fuel Injector Circuit                              |
| • Lamp Circuit                     | • Ignition Coil Circuit                              |
| • Motor Relay Circuit              | • Oxygen Sensor Circuit                              |
| • Throttle position Sensor Circuit | • Crankshaft to Camshaft (Crank Angle Space) Circuit |
| • Engine Coolant Sensor Circuit    | • Front O2 to Rear O2 Catalytic Converter Testing    |

## EV Motor & Generator Stem Kit - 10 Sets of Components

SKU: STEM-01



### TURN YOUR CLASSROOM INTO A STEM LABORATORY!

This kit provides the foundation of hybrid and electric vehicle technology with ten sets of parts that can be configured a variety of ways to create an electric motor or generator.

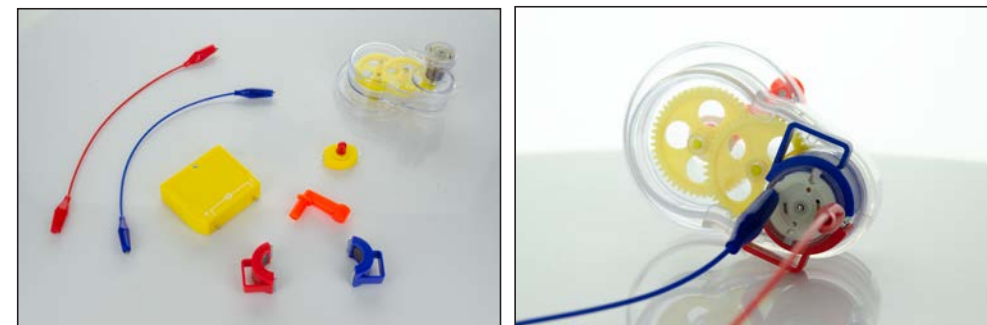
Students will discover how electricity drives the motor with battery power and also how such a motor might generate electricity when used in reverse.

Kits come with student worksheets listing the activities and challenges that will demonstrate the principles of magnetism, electric generators, and gear reduction.

This hands-on experience will reveal the spark that drives our digital lives.

With electricity driving most of our lives, not to mention some of our cars, the EV Motor and Generator STEM Activity Kit can provide days of valuable education for students of all ages!

The kit includes a sturdy case for all components.



**SCAN THIS QR CODE TO BUY YOUR EV MOTOR AND  
GENERATOR STEM ACTIVITY KIT TODAY**



## WEB Services & Integrations

AVI offers a host of web services and solutions. From branded pages to white-label LMS platforms, AVI can mold a solution to fit your needs. If you are looking to connect your platform to the Group Training Academy or AVI On Demand we can connect to platforms such as Canvas and Blackboard.

### Integrating Your Content Into The Group Training Academy and AVI

If you are looking to get your content in front of more learners, we might be interested in a partnership where your content can be integrated into the Group Training Academy or AVI On Demand. There are several methods we use to make this happen including:

- We can rebuild your content within our native LMS
- We can connect through a Single Sign On so that learners will head to your platform
- *Coming soon: We will be able to accept SCORM packets!*

### Integrating AVI Content Onto Your Platform

AVI has a robust collection of courses and course content that can be integrated with your platform through several channels. Whether you want ASE Test Prep or premium releases, AVI can customize an experience for your users. Connectivity and integrations can be achieved through methods including:

- SCORM 1.2 or 2004 packets
- API Integration
- LTI Integration

### White-Label Platforms

AVI hosts several white-label platforms for our clients. We offer a full turn-key solution to a branded experience for your team. The same features and functions available on AVI On Demand and The Group Training Academy are included in our white-label platforms. In addition to content, AVI will also maintain and manage the website saving you the headache of modern internet challenges.

### Portal Pages

If you want users to come from your website to AVI On Demand for training we can make the experience look a little more like your brand by creating a branded portal. Your logo would be front and center and content you pick would be displayed directly on the page giving your learners a one-stop-shop experience. Just like any other shop or organizational unit, you will be able to assign, track, and generate reports on the course completion of your users.



## Additional Content

There is a great deal more content on AVI On Demand and the Group Training Academy than just ASE Test Prep and premium courses. Thanks to a variety of partnerships and collaborations learners can find well over 1000 hours of content on our platforms.

### Manufacturer Videos

AVI and The Group Training Academy hosts hundreds of videos featuring manufacturer content from how to install their product to how to sell it in your stores or bays. Some of these videos are part of packages for purchase and many more are free to view.

### Product Knowledge Posts

Much like the manufacturer videos, Product Knowledge Posts deal with teaching your techs, service advisors, and counterment about products. Many of these come from manufacturers and may help give your team the edge when it comes to the many choices available to the aftermarket auto shop.

### Tech Tips

Whenever AVI creates a premium course, one or more tech tips are pulled out of the content and are made available for free. Often times these tech tips are useful knowledge and also inform a learner about the overall content of the premium course.

### Sales and Marketing Training

Some of the training available on our platforms focuses on the oft overlooked sales and marketing techniques and tactics. These can be extremely valuable for your service advisors and parts professionals. An automotive genius may be able to provide you the best way to fix a problem but may not be the best at selling the customer the parts and services that make your shop profitable.

### Shop Owner and Manager Training

Techs and parts pros aren't the only ones to benefit from expert-led training. Need help figuring out how to hire the best or help getting your shop profitable, look no further than the many offerings available directed at shop owners and managers.

If we were to put all of our courses and content into this catalog it would be enormous. There are thousands and thousands of videos, posts, tips, courses, manuals, and tools & equipment on AVI On Demand. Check out the website for the full experience.

[AVIONdemand.com](https://www.aviondemand.com)





**The**  
**GROUP**  
TRAINING ACADEMY

**AVI**  
ON DEMAND

**AVI**  
ON-SITE

Discover why the Group Training Academy and AVI On Demand are leading the way with cutting-edge, expert-led training for the automotive aftermarket.

**[TheGroupTrainingAcademy.com](http://TheGroupTrainingAcademy.com) • [AVIOnDemand.com](http://AVIOnDemand.com)**