Teaching an Auto Body unit in your Auto Program

Instructor: Jay Abitz, Freedom High School

Have you been looking to add something new and unique to your existing auto program? Have you considered introducing your students to the auto body/collision repair industry? There are many auto body skills that can be taught in a regular auto lab without a paint booth. This program will demonstrate the basic skills needed including dent repair, plastic repair, and welding. Information will be shared regarding how to raise funds and support for your program, as well as a number of avenues for free tools and materials!

Hands on portion includes: Don't repair on a steel fender, filler application, and sanding, as well as plastic repair.

COLLISION REPAIR EDUCATION™
FOUNDATION
I-CAR

Introducing the Snap-on Scanner Simulation

Instructor: Carl Hader, Grafton High School

This amazing simulation board can streamline the introduction that you give students to Scan Tools (ASE Areas A6 & A8). They can be used directly with scan tools and be projected in both the lab and the classroom.

Carl Hader will also take you through the screen capture process which will empower you to build customized scan presentations that specifically mesh with your program standards and goals. A very useful lab task sheet template for use with the board is also provided. This session may actually help you pass the A8 ASE Certification Test!

And what if you do not have the Scanner Simulation Board—There's an answer to that issue too!

Online Education with CDX Automotive & Diesel

Instructor:

ASE Master Technician, Jesse Mitchell, is the CDX Product Owner for automotive and diesel programs. He has worked in Ohio Automotive dealership and taught automotive classes at a Ohio Community College. Jesse has also written CDX chapters and helped develop CDX market-leading online content.

Online Education Presentation covers:

- Benefits of online learning
- The latest trends in e-learning
- Integrated online course management
- Task sheet management
- Online testing and grading

Meet the NEW NATEF Standards with new CDX

CDX brings your fully integrated CDX complete training system which will make accreditation easier than ever while giving your students access to even more engaging and interactive content.

CDX has created the most comprehensive training system available; print textbooks, eBooks, audio books, 1,500 videos / interactive animations, instructor resources, etc.

CDX Auto

Tires are More than Just Black and Round!

Instructor: Mitch Windorff, Pomp's Tire

Topics

- Proper nail hole repair
  - -Run flat tires
  - -Temporary Mobility kits
  - -Standard Radial tires
- Tire Aging and recall update NTSB (National Transportation Safety Board)
- Plastic clad wheels
- Mounting and inflating P and LT tires
  - -Run flat tires
- TPMS 10 years in
- Tire and wheel assembly installation
- Speed rating and load index
- Industry Best Practices
  - -Industry standard on replacing less than 4 tires
  - -Light truck tire replacement with P metric or P metric with LT
  - -Crossover confusion
  - -Documentation (litigation avoidance)
  - -The days of "can you just" are over
- ADAS (Advance Drive Assist System)
  - -What that means for alignment technicians

Course Objective:

Attendees will understand how complex the world of passenger and light truck tires and wheels has become and the challenges not only the tire dealers face but repair shops that must remove tire/ wheel assemblies to perform other work.

Pomp's®
TIRE & AUTO SERVICE

Read & Understand VW Wiring Diagrams

Instructor: Dave Wohlhart, VW

A guided tour of how to reach and understand Volkswagen Wiring Diagrams.

Follow signals and power flow through a circuit. Locate connections and terminals, understand component locations, and current tracks. Task based, trace power through a wiring diagram from the power source to ground. Apply it to an accessible vehicle.

Real World Service Programming

Instructor: Robert Faulkner, GM—AC Delco

Flash programming is in an important part of repairs on most vehicles. More parts and components require programming or initialization before they can be placed in service. Newer GM vehicles include a very large number of on-board computers which are each dedicated to performing specific tasks and may require programming during service.

This course will focus on various set-up, initialization, learning, programming/reprogramming procedures for several computers such as engine control modules, body control modules, transmission control modules and numerous other modules that manage electronic systems throughout the vehicle.

Pass-through, off-board and remote programming will be discussed with a key focus on SAE J2534 regulations for pass-through programming. Case studies and a demonstration of the General Motors service programming procedures prepares attendees to begin programming on their own.

Introducing the Snap-on Lab Scope Demo Board

Instructor: Carl Hader, Grafton High School

This amazing simulation demo board can streamline the introduction that you give students to Lab Scopes (ASE Area A6 & A8). They can be used directly with lab scopes and scanners with lab scope capabilities. Images can be projected in both the lab and the classroom.

Carl Hader will also take you through the screen capture process which will empower you to build customized lab scope presentations and test pages that specifically mesh with your program standards and goals. A very useful lab task sheet template for use with the board is also provided.

This session may actually help you pass the A8 ASE Certification Test!

And what if you do not have the Lab Scope Demo Board—There's an answer for that too!

Today's Top Service Concerns

Instructor: Robert Faulkner, GM—AC Delco

This seminar will cover a selection of top service concerns affecting many aftermarket shops. Discussion of proper service techniques to improve the technician's skills when replacing various on-vehicle components, electrical, steering, brake, and engine systems are among these addressed. Covered are many tips and suggestions to ensure a customers concerns are fixed right the first time. Repair solutions and root cause diagnostics that contribute to increased customer satisfaction, and information on some of the latest product analysis, bulletins, service tips and diagnostics are included.

Sampling of service concerns covered include:

- Terminal fretting
- Component set up cautions
- Dexos & oiling
- Parasitic load & voltage drop
- Active fuel management lifters
- Battery technology trends
- Spark plug & glow plug service concerns
- Brake copper & heavy metals

Digital Multi-Meter (DMM) Train the Trainer training

Instructor: Ron Kirsch, TPI

The class size is limited to the number of meters and signal boards set up for the training. 2 per meter is the maximum for good learning. It is a classroom training class only.

The meter class consists of hands-on learning for beginners and mid-level meter users. Advanced meter users can review and learn some of the new features of the meters they may have overlooked or not been aware of.

A brief meter history helps understand where it came from and how it works today removing some of the 'magic' that is part of the meter.

Part of this class is devoted to electrical safety.

Another area covers how to care for the meter.

The class runs through all of the dial and button features of the meter. It also provides definitions for the symbols on the meter dial.

A meter certificate is awarded to those who pass the class.

What can DSO do?

Instructor: Andy Olson, Western Technical College

Using a lab scope puts a visual to electricity. This course will simplify the use of DSO (digital storage oscilloscopes) to test components by utilizing basic sensor operation. Current ramping will be demonstrated and participants will have an opportunity to use the DSO on vehicles in the lab. Advanced scope techniques using amp clamps, pressure transducers and pulse wave sensor will be discussed. The instructor will be using several platforms from the affordable AESwave uScope to the PICO four channel laptop based oscilloscope.

Western Technical College
THE ESSENTIAL EXPERIENCE

NATEF Accreditation - A Team Approach

Instructor: Dan Klecker, AYES Field Manager

NATEF recognition can bring benefits to your program, students and yourself without pushing you over the edge. You should not be expected to get your automotive program NATEF accredited by yourself. The accreditation is for the school district's automotive program that you lead. You can expect to have your district support in obtaining this industry accreditation. I will share some strategies on how to approach your district for this assistance.

I will provide you the latest NATEF materials, in electronic form, to start the process. I will help you get the materials set up for your school and make sure you understand the process necessary to succeed. Bringing your own laptop will enable you to get started immediately.