

VEHICLE TECHNOLOGY AND TRENDS 2016

NEW16

As OEMs are being tasked with light weighting their vehicles, they are making significant changes in vehicle construction and technology. For the 2016 model year, a major trend is the use of mixed materials, such as aluminum combined with ultrahigh-strength steel (UHSS) and carbon fiber. These changes will fuel a Technical Tsunami™ of advanced systems and will be a game changer for the repair industry that is already focused on improving safety.

NEW16 provides technicians with an insider view of the vehicle technologies and trends that will soon be commonplace in collision repair facilities. Content in this course will help technicians and shops understand the collision repair implications of new vehicle features and be prepared to perform complete, safe, and quality repairs.

Course Content

Module 1 – Trends and Industry Influences

The course starts with an overview of manufacturing trends and a glimpse into what is new and what to expect with 2016 vehicles. Aluminum-intensive vehicle construction continues, but with an added twist of high-strength steel (HSS), carbon fiber, and other materials combined with aluminum. This module will also discuss features and trends that will benefit driver safety, such as traffic jam assistance and seat cushion air bags. Students also receive detailed information on new equipment, materials, and procedures, such as a new family of toughened structural adhesives and equipment for refinishing.

Module 2 – North American Vehicle Makers

As the course continues, students gain a glimpse into some of the features, technologies, and materials found on new North American vehicles, including Fiat Chrysler, Ford, and General Motors. Among the vehicles highlighted are the 2016 Lincoln MKX, Chevrolet Malibu Hybrid, an interview with GM on the Cadillac CT6 mixed material construction, and changes with the new generation Chevrolet Volt. Repair procedures for 2015 models that are unchanged for 2016 are also featured.

Module 3 – Asian Vehicle Makers

The third module introduces new features found on Asian vehicles, including an interview with Honda on the 2016 Pilot, Kia firsts on the 2016 Optima, and a first look at the next generation Acura NSX, Mazda MX-5 Miata, Nissan Maxima, two new Scion models, and the Hyundai Sonata Plug-In Hybrid. Students will also learn about hidden-blind-spot sensors on the 2016 Toyota Tundra.

Module 4 – European Vehicle Makers

This module highlights new features being introduced by European vehicles makers, including the carbon fiber core structure of the innovative BMW 7-Series, the mixed material structure on the Jaguar XF, the new generation Volvo XC90, and more.

Module 5 – Future Trends

The course concludes with an overview of near-future possibilities, including the upcoming Chevrolet Bolt EV, energy-storing body panels, a rear seat airbag, self-inflating tire, and a finish that cleans itself.

Recommendations

This course covers a variety of topics related to technology in current and future vehicles. It is recommended that students have a basic understanding of several of the subject areas contained in the course and understand where they can find repair information on new trends. Courses that are helpful include:

- Alternative Fuel Vehicle Damage Analysis and Safety (ALT03)
- Alternative Fuel Vehicle Damage Analysis (ALT04e)
- Alternative Fuel Vehicle Safety (ALT05e)
- Introduction to Carbon Fiber (CFR01e)
- Aluminum Panels and Structures Damage Analysis (DAM05; DAM05e)
- Damage Analysis of Advanced Automotive Systems (DAM07; DAM07e)
- Steel Unitized Structures Technologies and Repair (SPS07)

Registration

To register for Vehicle Technology and Trends 2016 (NEW16), visit the I-CAR website at www.I-CAR.com or contact I-CAR Customer Care at 800-422-7872.

Course Benefits

Be Prepared

- Understand the latest trends and industry influences
- Know what features and technologies to expect including vehicle materials and designs, safety features, and fuel-saving strategies
- Covers North American, Asian, and European vehicles to avoid surprises during the repair procedure.

Save Time

- Gain insight into repair procedures for several 2016 model vehicles.

Credit Hours: 3 Hours

Estimated Duration: 4 Hours

Format: Classroom training with posttest

Meets I-CAR ProLevel® or annual training requirements for the following roles:

-  ESTIMATOR
-  PRODUCTION MANAGEMENT
-  STEEL STRUCTURAL TECHNICIAN
-  ALUMINUM STRUCTURAL TECHNICIAN
-  NON-STRUCTURAL TECHNICIAN
-  ELECTRICAL/MECHANICAL TECHNICIAN
-  REFINISH TECHNICIAN
-  AUTO PHYSICAL DAMAGE APPRAISER



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