

**6<sup>th</sup> Annual**



**Innovate • Integrate • Motivate**

**INSTRUCTOR TRAINING CONFERENCE**

**The Embassy Suites  
Frisco, TX  
July 22-25, 2019**

**Program of Events**



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# Agenda & Program Descriptions



**Mon., July 22**

**9:00 am - 4:00 pm**  
**ASE Testing: Sea Biscuit**

**6:00 PM - 8:00 PM**  
**WELCOME RECEPTION: FRISCO 6**

**Tues., July 23**

**6:00 am - 8:00 am**  
**Breakfast: Atrium (complimentary for Embassy Suites guests)**

**9:00 am - 4:00 pm**  
**ASE Testing: Sea Biscuit**

**8:00 am - 8:30 am**

***Kickoff Meeting***

***Mike Coley, President, ASE Education Foundation***

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Welcome to Frisco, TX and the 6th annual ASE Instructor Training Conference. (*Frisco 1 & 2*)

**8:30 am - 9:30 am**

***Perkins V***

***Michael Brustein, Partner, Brustein & Manasevit PLLC***

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A discussion of how to access federal funds to support automotive programs, activities that may be supported, understanding the relevant legal requirements, and changes between Perkins IV and V. (*Frisco 1 & 2*)

**9:30 am - 10:30 am**

***Dubiski Career High School: How to Place 800 Interns from One School!***

***Dr. Susan Hull, Superintendent, Grand Prairie ISD; Robert "Bert" Fulgium, VP of Machine Product Support, Holt Caterpillar; Tony Carimi, COO, Park Place Dealerships; John Tostanoski, Technical Placement Specialist, Ford Motor Company; Lynn McGinley, Former President, Grand Prairie Chamber of Commerce; Rick Elmore, Coordinator of CTE, Grand Prairie ISD; Winston Minix, Executive Director of CTE, Grand Prairie ISD; Students, Dubiski Career HS***

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As many schools struggle with industry support and intern placement, here is one school that won't take "No" for an answer. Dubiski Career High School in Grand Prairie, TX, partnered with administrators, employers and community leaders to overcome barriers and develop a solid pipeline for students to intern in local companies. Hear how students and businesses are benefiting from those who made it happen. (*Frisco 1&2*)

**10:30 am - 11:00 am**  
**Break: Frisco Foyer**

## Technical Training

Collision-focused Seminar

Truck-focused Seminar

**11:00 am - 12:30 pm**

### ***Getting the Job Done Right***

***Chris Aiello, R&D Scientist, WD-40 Company***

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This session will cover how to use maintenance chemicals (lubricants, penetrants, greases, cleaners and degreasers) to protect equipment and make jobs easier. You will learn how these chemicals are developed, the test methods used to evaluate performance and chemistry, which ones you should use on different surfaces, and the health and safety around these types of products. *(Frisco 1)*

### ***The Proper Application of Torque***

***Rich Sabot, General Manager, Team Torque***

***Lee Winterberg, Sales Manager, Team Torque***

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Explore the criticality of applying torque to fasteners, proper torque tool usage, common torque tool issues, importance of on-going torque tool calibration and industry best practices that increase safety and reduce liability and rework. *(Frisco 2)*

### ***The Secret to Turning Today's Students into Tomorrow's Master Technicians***

***Kyle Holt, President, S/P2***

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With the technician shortage dominating industry headlines, we are all depending on today's students to enter and stay in the industry, just to keep us afloat. But are we really doing what is necessary to make that happen? We're going to share some secrets, including how the numbers 42, 74, 25, and 10,000 must shape the next decade of the automotive industry. *(Frisco 3)*

### ***Alexa! Hey Siri! Ok Google! – The Connected Automotive Classroom***

***Michael Gray, Owner/Publisher, AutoUpkeep.com***

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This session will provide an overview of apps, YouTube channels, and smart speakers (Amazon Echo, Google Home, Apple HomePod, etc.) that automotive instructors can use to enhance instruction. Learn how to make a phone or smart speaker your virtual assistant. We will include time asking a smart speaker questions, reviewing apps that extend learning, and identifying YouTube channels to engage learners. Bring your phone and/or tablet to class, connect to Wi-Fi, and install apps during this interactive session. *(Frisco 4)*

## **What is Low Speed Pre-Ignition & Why Should I Care?**

**Lake Speed, Jr.**, Head of R&D, Driven Racing Oil, LLC

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Low Speed Pre-Ignition (LSPI) is a major problem in Direct Injection (DI) engines, especially turbocharged DI engines, and the chemical make-up of the motor oil plays a significant role in the frequency and severity of the LSPI events. OEMs such as GM have already created new oil specs and new engine tests in response to the LSPI problem, and the API and ILSAC are working on new oil specs and tests as well. This seminar will cover the basics of LSPI and present the current knowledge on this rapidly developing situation. *(Frisco 5)*

## **Nissan Technologies and F1 Update 2.0**

**Edward Simmons**, Senior Planner Instructional Design, Nissan Product, Service & Technical Training

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This session will cover the new KR20DDET 2.0 Liter VC-T engine. It will also cover new technologies introduced in the 2018-2019 models of Nissan and Infiniti. *(Frisco 7)*

## **Volkswagen Technologies**

**John Craven**, Technical Instructor, Volkswagen

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This presentation covers the identification, operation, calibration and diagnosis of Volkswagen driver assistance systems. *(Frisco 8)*

## **Electric Vehicle 101**

**Luke Thompson**, Author, Goodheart-Willcox

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A review of current electric vehicle trends and emerging technology. Discuss need-to-know safety information, basic systems operation, unique electric vehicle tools and equipment, and compare how electric vehicles are both similar and different from the traditional internal combustion engine vehicle. Participants will receive an electric vehicle presentation they can use with their own students. Presented by Luke Thompson, experienced electric vehicle instructor and textbook author. *(Frisco 9)*

## **Key Performance Indicators - Why the Numbers Are Important**

**Michael Pellett**, West Region Technical Training Manager, Sherwin-Williams

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This session will emphasize the importance of measuring key metrics in the paint shop and how those measurements can result in improved performance. Rather than focusing on the math, this session will look at specific activities that can positively impact paint shop KPIs. The goal will be to illustrate how KPIs can be used to improve productivity, quality and insurance company relationships, while improving the bottom line profit. *(Bush)*

## **Medium Duty Aftertreatment & Strategy Based Diagnostics**

**Andy Curtin**, Lifecycle Training Manager, Isuzu Commercial Truck of America, Inc.

**John Renno**, Training Manager, Isuzu Commercial Truck of America, Inc.

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Hear about Isuzu's diesel aftertreatment systems in detail along with diagnostic strategies to deal with "Diesel Fatigue." We'll also talk about the importance of a consistent diagnostic approach to any customer concern. Finally, we'll provide an opportunity to enroll for access to Isuzu's online content for your students. *(Hamilton)*

# 12:30 pm - 1:30 pm

## Lunch: Frisco 6

### 1:30 pm - 3:00 pm

#### ***Family Feud with Steve Johnson... not Harvey***

**Steve Johnson**, President, Steve Johnson Racing

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“A game show fun that helps educators see their own personal brand”

- Who wants to play, “Fast Branding”?
- Getting the answers before the test
- Firm, fair and friendly, what about fun?
- Do you deliver on your brand’s promise?

Winning is a powerful time in one’s life. However, after the trophy presentation and the pictures... at some point the day ends. The next day is like someone just swiped left on your iPhone. The excitement is gone and reality kicks in. In most cases, the students come in, the bell rings and it’s time to start the day. Think of this presentation as a Public Relations App. Swipe right and we show you how you can make small tweaks to your personal brand for school and for life. As a bonus we will talk about the brand of an engine builder and available technology around today’s NHRA drag racing. *(Frisco 1)*

#### ***Filtration Technology Found in Modern Vehicles***

**Steve Gibson**, Program Coordinator Education & Technical Training, K&N Engineering

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In this session, we will examine technologies used for filtration and protection for vital components. *(Frisco 2)*

#### ***The Secret to Turning Today’s Students into Tomorrow’s Master Technicians***

**Kyle Holt**, President, S/P2

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With the technician shortage dominating industry headlines, we are all depending on today’s students to enter and stay in the industry, just to keep us afloat. But are we really doing what is necessary to make that happen? We’re going to share some secrets, including how the numbers 42, 74, 25, and 10,000 must shape the next decade of the automotive industry. *(Frisco 3)*

#### ***Creating a Google Action for the Automotive Classroom***

**Michael Gray**, Owner/Publisher, AutoUpkeep.com

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This session will use the Google Actions Console to create a trivia game for automotive students. Google Action Templates make it easy to create projects with no coding. Together we will come up with automotive questions, upload them into the Google Actions Console, and deploy the project. Students will be able to access the trivia game from any device that has the Google Assistant installed, including smartphones, tablets, and smart speakers. The trivia game can be used to help students review general automotive knowledge, technical definitions, ASE tests, or fun facts to keep students engaged. *(Frisco 4)*

### **What is Low Speed Pre-Ignition & Why Should I Care?**

**Lake Speed, Jr.**, Head of R&D, Driven Racing Oil, LLC

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### **Troubleshooting With Paint Chemistry**

**Bob Pittenger**, Learning Content Manager, Axalta Coating Systems

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The best way to troubleshoot paint problems is to understand chemistry and why paint will do the things it does. This interactive session will give you the tools you need to help troubleshoot when problems arise. Start listing your questions and bring them along! *(Bush)*

### **Heavy Duty Air Brake**

**Clifton Galloway**, Manager of Skills Development, Ryder System, Inc

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Air brake wheel end training focused on practices to maximize vehicle uptime. Maintenance practices to maintain the brake system to meet Federal inspection standards and vehicle stopping distance requirements. *(Hamilton)*

**3:00 pm - 3:30 pm**  
**Break: Frisco Foyer**

**3:30 pm - 5:00 pm**

***Family Feud with Steve Johnson... not Harvey***

***Steve Johnson, President, Steve Johnson Racing***

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***Filtration Technology Found in Modern Vehicles***

***Steve Gibson, Program Coordinator Education & Technical Training, K&N Engineering***

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In this session, we will examine technologies used for filtration and protection for vital components. *(Frisco 2)*

***ASE Entry-Level Certification***

***Don Dew, Consultant, ASE***

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ASE Student Certification is now ASE Entry-Level Certification. Come learn about other program changes and how you can use the tests (delivered at your school) to benefit your program and your students. *(Frisco 3)*

***Automotive Industry Trends and Why Teaching Basic Electrical Doesn’t Work Anymore***

***Skip Saurman, Consultant, Megatech Corporation***

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New vehicles are extremely complex. Learning electrical/electronic principles is critical for your students in order to diagnose today’s modern vehicles. Are every one of your students competent in these vital concepts? If not, let’s discuss why not and we’ll make an attempt to fix it! *(Frisco 4)*

***Ford’s Advanced Driver Assistance Systems (ADAS)***

***Don Cofer, Service Training Instructor, Ford Motor Company***

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This session will cover Ford’s Advanced Driver Assistance Systems (ADAS) which help customers drive more safely and confidently amid rising congestion and distractions. ADAS or Ford Co-Pilot 360 systems include: Automatic Emergency Braking, Adaptive Cruise Control, Evasive Steering Assist, Lane Keeping Assist/Alert and Pre-Collision Assist, Active Park Assist. These systems will be discussed with emphasis on theory and operation. *(Frisco 5)*



## **Catalytic Convertors - 5 Steps To Perform Before Replacement**

**Joshua Wilson**, Service Operations Curriculum Manager, DRiV

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A moderately technical, focused course that will improve understanding of catalytic converter function and its anatomy. The course will also provide a better understanding of why converters fail and 5 basic steps (or “5 checks”) you can make to ensure the proper function of the new converter you install. These 5 basic diagnostic checks cover 90% of all converter failure issues and P0420/P0430 codes. *(Frisco 7)*

## **Texas Workforce Commission**

**Emily Clodfelter**, Program Manager, Office of Employer Initiatives

**Major Jones**, Education Outreach Specialist

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CTE resources from career education data and tools to apprenticeship and JET equipment grant opportunities. *(Frisco 8)*

## **How to Successfully Establish an Effective CTE Advisory Committee**

**George Arrants**, Manager, ASE Education Foundation

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Useful tips on how to select and recruit advisory board members that will be most effective for your program/district. Arrange meetings that will have the most value for you, your students and your board members. What should your expectations be? How can you provide value to your board members and students? What should you consider when planning meetings? See how an effective advisory board benefits your students, your program, your community, and local business and industry. *(Frisco 9)*

## **3M Collision Repair Academy: On-Demand eTraining for the Collision Industry**

**Jason Scharton**, Global Business Development Manager, 3M

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Come find out how 3M can be a resource to enhance your automotive repair training! The 3M Collision Repair Academy offers courses that will expand your knowledge, deliver practical procedures that you can use right away, and, in many cases, earn you I-CAR credits. As the modules are based on real-world repair situations that teach how to produce consistent, high-quality results in our ever-changing industry, they will help you – whether an “old pro” or a new apprentice – enhance your skills and grow your career. *(Bush)*

## **Past, Present, Future - Diagnosing Faults with Low-Pressure / High-Pressure Leak Detectors**

**Mark Hawkins**, Manager Technical Solutions, Redline Detection

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This course will bring you up to speed with the latest leak finding technology using visible vapor and beyond to reliably detect both low-pressure and high-pressure leaks, pinpoint exact location, and precisely identify failing components. Even allowing you to locate the root cause of aftertreatment issues including excessive DPF regeneration events, exhaust system leaks, cabin leaks, the cause of dangerous fumes inside the cabin and more. As well as information on air brake leak technology and alternative fuel vehicles. Attend this class and be entered into a raffle to win a free smoke machine for your school. *(Hamilton)*

**5:00 PM - 7:30 PM**  
**SPONSOR EXPO: FRISCO 6**

**COME GRAB A DRINK, MINGLE WITH OUR SPONSORS, AND WIN SOME RAFFLE ITEMS!**

**Wed., July 24**

**6:00 am - 8:00 am**

**Breakfast: Atrium** (complimentary for Embassy Suites guests)

**6:45 am - 7:45 am**

***ATMC Roundtable***

***Dave Milne, President, ATMC***

You are invited to a roundtable discussion on resolving disconnects between industry & education that create obstacles for students attempting to make the transition from school to the workplace. (*Frisco 2*)

**9:00 am - 4:00 pm**

**ASE Testing: Sea Biscuit**

**8:00 am - 10:00 am**

***Alignment Diagnostic Angles Part 1***

***Lonnie Horn, Trainer/Developer, CARQUEST Technical Institute***

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The importance of diagnostic angles and their function will be expounded on in greater detail in this class (session 1 of 2), along with the aftermarket adjustment solutions that are available when no OEM adjustments are provided. To complete the class you must come to both sessions. (*Frisco 1*)

***Subaru Vehicle Dynamics and Safety Systems***

***Ken Benson, Training Operations Manager, Subaru of America***

***Mitch May, West Region Education Manager, Subaru Univ., Subaru of America***

***Chris Weigel, Subaru University Manager, Subaru of America***

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A look at emerging technologies that are present in today's vehicles from operation and diagnostic perspectives. (*Frisco 2*)

***The Shocking State of Electrical Training in the Classroom***

***Laura Lyons, President, ATech Training***

***Brian Jenkins, Instructor, ATech Training***

***Mark McKinney, Instructor, ATech Training***

***Lyle Taylor, Instructor, ATech Training***

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The real question is, do our students have the basic electrical/electronic foundation they will need to become successful in this industry? Exploring the need for "Structured Skilled Development" can still be one way to approach training: by building from fact to understanding, working from simple to complex, learning through discovery, and then transferring knowledge to problem solving. While taking this approach we will explore teaching methods to incorporate more hands-on activities into training, using electrical system trainers with hands-on activities. Focusing on teaching from basic electrical to advanced electrical diagnostics and troubleshooting systems while training in the classroom. (*Frisco 3*)

## **Video Content Creation Tips and Best Practices**

**Scott Brown**, President, Diagnostic Network

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The goal of this session is to increase the production value on the videos you and your students record in the classroom, lab, and work environments. We will be covering the following:

Photography basics ♦ Cameras ♦ Cell phones for both photos and videos along with some great apps ♦ Exposure ♦ Lighting ♦ Color/White Balance ♦ HD vs 4k ♦ Sound ♦ Creative ♦ Video editing applications ♦ Video editing

In the class, we will collect video footage and stills and import them into a project and edit them into a short movie. (*Frisco 4*)

## **Addressing Career Readiness and Affordability with Pathways**

**Andrew Ouimet**, Marketing Manager, Cengage

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Last year, Cengage introduced the first-of-its-kind digital subscription service, Cengage Unlimited, which has since saved students over \$60 million! This year, the Cengage Transportation Technology team is back to discuss Pathways, a new subscription model for secondary institutions. During this session, we will:

- Explain how Pathways works and how it can save secondary institutions money
- Demonstrate how S/P2's industry-specific training modules in MindTap can be used at no additional cost
- Deep dive Theory simulations offered in Automotive and Diesel MindTap platforms
- Review ASE Education Foundation job sheets that align to the latest ASE Education Foundation task lists
- Explore other key career readiness features that can help prepare students for the next step. (*Frisco 5*)

## **Static vs. Dynamic Electrical Diagnostics Part 1**

**Keith Littleton**, President, K&D Technical Innovations

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This **4-hour** class will cover innovative diagnostic techniques to help trainers and technicians stay ahead of the growing technologies being added to today's vehicles. This class will be a hands-on class using oscilloscopes and various other tools to demonstrate the diagnostic methods. To complete class you must attend both sessions. (*Frisco 7*)

## **Intro to the DSO or How Can I Teach Scopes to My Students?**

**Dick Krieger**, Educational Specialist-Tech Writer, ConsuLab

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The digital storage oscilloscope (DSO) is rapidly becoming an essential tool with today's vehicles and increasing electronic technologies. Some electrical signals are impossible to properly diagnose without a scope. The scope is often very misunderstood and an "unknown" for many instructors, students and even technicians. This seminar will present basic information on the automotive oscilloscope (DSO) including:

- 1- Limitations of other diagnostic test equipment (test lights, logic probes, DMMs, graphing meters and scan tools)
- 2- Why you should learn how to use an oscilloscope
- 3- How to set up and use a scope using controls and adjustments
- 4- Entry-level scope pattern set-up and interpretation
- 5- Economical ways to teach oscilloscopes to your students

Attendees do not have to have any prior experience with scopes to attend this class. Class is intended to present information and reasons why the oscilloscope is becoming an essential and necessary diagnostic tool. Attendees may wish to bring their laptop to class. There will be some "hands-on" work with provided oscilloscopes and created signals to evaluate. An extensive class handout will be provided and will also be made available for free download. It does not have to cost a fortune to purchase, learn how to use and teach oscilloscopes to your students. (*Frisco 8*)

## ***Recruiting and Retaining Women in Automotive***

***Catherine Treanor, UK Business Development Manager, Electude***

***Darcy Wedel, North American Sales Manager, Electude***

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My presentation will provide inspiration and methods to help automotive teachers increase the number of girls in motor vehicle courses. I will talk about my experiences as a female technician within the industry and then open the floor to give you the opportunity to share techniques and experiences with fellow teachers.

*(Frisco 9)*

## ***SPS07 Steel Unitized Structures Technologies and Repair Part 1***

***Tim McCarty, Instructor, I-CAR***

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This is part 1 of a **4-hour** class which requires attendance at both sessions.

### **Module 1 – Steel Strength and Unitized Structures Repair**

This module explains the new types of steels used in unitized vehicle structures. The student will learn about the mechanical properties of some of the new, advanced high-strength steels and how typical repair processes can affect steel strength.

### **Module 2 – New Construction Processes**

In this module, the student will learn objectives for identifying new construction processes used in steel unitized structures such as tailor welding and multiple layer construction. The student will also examine how new construction processes have altered traditional repair procedures. *(Bush)*

## ***Basic Electrical Fundamentals***

***Chuck Kerr, FM Programs Advisor, FedEx Freight***

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This session will start from a molecular state of energy all the way up to starting and charging.

*(Hamilton)*

**10:00 am - 10:30 am**  
**Break: Frisco Foyer**

## **10:30 am - 12:00 pm**

### ***Alignment Diagnostic Angles Part 2***

***Lonnie Horn, Trainer/Developer, CARQUEST Technical Institute***

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This is part 2 of this class which started at 8:00 am. The importance of diagnostic angles and their function will be expounded on in greater detail in this class, along with the aftermarket adjustment solutions that are available when no OEM adjustments are provided. To complete the class you must come to both sessions.

*(Frisco 1)*

## ***Making the Most of CDX Online: What's new for 2019***

***Ian Giddings, Digital Account Manager, CDX Learning Systems***

***Kevin Murphy, Product Owner, CDX Learning Systems***

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For 25 years, CDX has been at the forefront of the industry, building learning solutions that represent a much-needed evolution in learning. Our shift to offering content within an outcome-based organization shortens the amount of time it takes to learn, while still ensuring learners become effective employees. We do this by creating easily identifiable learning outcomes built into innovative technology solutions that fully prepare students and professionals for the “real world” and allow educators to be at their best. 2019 brings major courseware releases for our Fundamentals of Automotive Technology ONLINE and Maintenance and Light Repair ONLINE programs. We will be reviewing updates to the 2019 releases for these courses including new navigation, course management tools, and administration. *(Frisco 2)*

## ***The Shocking State of Electrical Training in the Classroom***

***Laura Lyons, President, ATech Training***

***Brian Jenkins, Instructor, ATech Training***

***Mark McKinney, Instructor, ATech Training***

***Lyle Taylor, Instructor, ATech Training***

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Do our students have the basic electrical/electronic foundation they will need to become successful in this industry? Exploring the need for “Structured Skilled Development” can still be one way to approach training: by building from fact to understanding, working from simple to complex, learning through discovery, and then transferring knowledge to problem solving. We will explore teaching methods to incorporate more hands-on activities into training, using electrical system trainers. Focusing on teaching from basic electrical to advanced electrical diagnostics and troubleshooting systems while training in the classroom. *(Frisco 3)*

## ***Service Excellence With TPMS***

***Jay Poparad, Program Manager - NA Aftermarket, Schrader TPMS Solutions***

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A TIA Certified Instructor will teach the key steps to TPMS service, including programming a sensor, TPMS relearn procedures, installation and removal procedures, as well as best practices. *(Frisco 4)*

## ***Addressing Career Readiness and Affordability with Pathways***

***Andrew Ouimet, Marketing Manager, Cengage***

---

Last year, Cengage introduced the first-of-its-kind digital subscription service, Cengage Unlimited, which has since saved students over \$60 million! This year, the Cengage Transportation Technology team is back to discuss Pathways, a new subscription model for secondary institutions. During this session, we will:

- Explain how Pathways works and how it can save secondary institutions money
- Demonstrate how S/P2's industry-specific training modules in MindTap can be used at no additional cost
- Deep dive Theory simulations offered in Automotive and Diesel MindTap platforms
- Review ASE Education Foundation job sheets that align to the latest ASE Education Foundation task lists
- Explore other key career readiness features that can help prepare students for the next step. *(Frisco 5)*

## ***Static vs. Dynamic Electrical Diagnostics Part 2***

***Keith Littleton, President, K&D Technical Innovations***

---

This **4-hour** class will cover innovative diagnostic techniques to help trainers and technicians stay ahead of the growing technologies being added to today's vehicles. This class will be a hands-on class using oscilloscopes and various other tools to demonstrate the diagnostic methods. To complete class you must attend both sessions. *(Frisco 7)*

## ***Using an X-Y Axis Voltmeter to Troubleshoot Heavy Duty & Automotive Electrical Systems***

***Jeff Curtis, Educational Specialist, ConsuLab***

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This hands on technical class will utilize x-y axis voltmeters for the participants to help the future and working technician troubleshoot electrical systems from the simple to the complex. The instructor has designed the class to utilize as many senses as possible, not just a visual digital multimeter read out, in an active learning setting. Be prepared to leave the class with a different perspective on utilizing more of our senses to logically troubleshoot systems and up your game teaching others how to learn the critical details of electrical troubleshooting. Come prepared to participate in this working hands-on session. This will not be a slideshow-based, PowerPoint-style, class. *(Frisco 8)*

## ***Hybrid and Electric Vehicle Battery Safety***

***Robert McGinn, Account Rep, CCAR***

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As an Automotive Instructor, you are likely teaching your students safety best-practices as part of your regular curriculum. But what about you? Wouldn't YOU like to have credentials to back up your knowledge of safety best-practices as they relate to hybrid and electric vehicle battery safety? In this session, you will:

- learn safety best-practices for evaluation and handling of possibly compromised high voltage batteries.
- get a closer look at the hazardous processes that can occur in lithium ion power systems.

Successful completion of the final exam (given at the conclusion of the session) will generate a Certificate of Completion credential for each instructor in the session. CCAR (The Coordinating Committee For Automotive Repair) and Electude have partnered to deliver a new online safety curriculum and credential designed for today's generation of automotive learners. CCAR E-Safety engages and guides learners to an understanding of automotive safety best-practices, preparing them to receive the CCAR's automotive student safety course completion certificate. *(Frisco 9)*

## ***SPS07 Steel Unitized Structures Technologies and Repair Part 2***

***Tim McCarty, Instructor, I-CAR***

---

This is part 2 of a **4-hour** class which requires attendance at both sessions.

### **Module 1 – Steel Strength and Unitized Structures Repair**

This module explains the new types of steels used in unitized vehicle structures. The student will learn about the mechanical properties of some of the new, advanced high-strength steels and how typical repair processes can affect steel strength.

### **Module 2 – New Construction Processes**

In this module, the student will learn objectives for identifying new construction processes used in steel unitized structures such as tailor welding and multiple layer construction. The student will also examine how new construction processes have altered traditional repair procedures. *(Bush)*

## ***Bridging the Gap: Class to Career - Help Your Students Land the Best Job!***

***Jim Boyd, Manager Fleet Technical, Southeastern Freight Lines***

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OK, it is graduation date... now what? Students can position themselves, in many ways, for success long beyond the classroom. For many, their careers may be defined by the formative years... in the classroom and in the early years of their employment. Join us for an interactive discussion about how students (mentored and assisted by their instructors!) can work to position themselves for great careers. We will also explore the relationships between school and employers that help to create these lanes for the future technicians of our industry. Young people need leadership and wisdom - and they - and their parents - are counting on you to help provide guidance! *(Hamilton)*

## 12:00 pm - 1:00 pm Lunch: Frisco 6

### 1:00 pm - 2:30 pm

#### ***Adopt a High School***

**Joe Myers**, T-TEN Manager, Toyota Motor North America

**Jill Saunders**, T-TEN Supervisor, Toyota Motor North America

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This session will center on some new programs that Toyota is developing to help support Secondary and Post-Secondary automotive programs as well as some initiatives about partnering our Toyota and Lexus dealers with these local programs. (Frisco 1)

#### ***Meeting the Challenges of Career Readiness for New Technicians***

**Kirk VanGelder**, Author, CDX Learning Systems

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Do you have trouble keeping your students engaged? Are you juggling having less time to teach and stricter standards? Come discuss recent research into today's learners and the strategies teachers can use to engage them. We will also explore the ASE Education Foundation's New Teacher Process and how CDX makes implementing it much easier. The CDX newly-released MLR curriculum solution will be used to demonstrate this effective teaching model. (Frisco 2)

#### ***Ford's Advanced Driver Assistance Systems (ADAS)***

**Don Cofer**, Service Training Instructor, Ford Motor Company

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This session will cover Ford's Advanced Driver Assistance Systems (ADAS) which help customers drive more safely and confidently amid rising congestion and distractions. ADAS or Ford Co-Pilot 360 systems include: Automatic Emergency Braking, Adaptive Cruise Control, Evasive Steering Assist, Lane Keeping Assist/Alert and Pre-Collision Assist, Active Park Assist. These systems will be discussed with emphasis on theory and operation. (Frisco 3)

#### ***Service Excellence With TPMS***

**Jay Poparad**, Program Manager - NA Aftermarket, Schrader TPMS Solutions

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Schrader's TIA Certified Instructor, Troy Roach, will be teaching the key steps to TPMS service, including programming a sensor, TPMS relearn procedures, installation and removal procedures, as well as best practices. (Frisco 4)

#### ***Getting the Job Done Right***

**Chris Aiello**, R&D Scientist, WD-40 Company

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This session will cover how to use maintenance chemicals (lubricants, penetrants, greases, cleaners and degreasers) to protect equipment and make jobs easier. You will learn how these chemicals are developed, the test methods used to evaluate performance and chemistry, which ones you should use on different surfaces, and the health and safety around these types of products. (Frisco 5)

## **Catalytic Convertors - 5 Steps To Perform Before Replacement**

**Joshua Wilson**, Service Operations Curriculum Manager, DRiV

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A moderately technical, focused course that will improve understanding of catalytic converter function and its anatomy. The course will also provide a better understanding of why converters fail and 5 basic steps (or “5 checks”) you can make to ensure the proper function of the new converter you install. These 5 basic diagnostic checks cover 90% of all converter failure issues and P0420/P0430 codes. *(Frisco 7)*

## **Their safety is riding on it!**

**Robert O’Gorman**, President, Automotive Lift Institute

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Introduction to the Automotive Lift Institute (ALI) and its nationally accredited Lift Inspector Certification Program as well as discussion of lift operator safety and ALI’s Lifting It Right online training certificate course. ALI’s mission is to promote the safe design, construction, installation, inspection, and use of automotive lift products. *(Frisco 8)*

## **Hybrid and Electric Vehicle Battery Safety**

**Robert McGinn**, Account Rep, CCAR

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As an Automotive Instructor, you are likely teaching your students safety best-practices as part of your regular curriculum. But what about you? Wouldn’t YOU like to have credentials to back up your knowledge of safety best-practices as they relate to hybrid and electric vehicle battery safety? In this session, you will:

- learn safety best practices for evaluation and handling of possibly compromised high voltage batteries.
- get a closer look at the hazardous processes that can occur in lithium ion power systems.

Successful completion of the final exam (given at the conclusion of the session) will generate a Certificate of Completion credential for each instructor in the session. CCAR (The Coordinating Committee For Automotive Repair) and Electude have partnered to deliver a new online safety curriculum and credential designed for today’s generation of automotive learners. CCAR E-Safety engages and guides learners to an understanding of automotive safety best-practices, preparing them to receive the CCAR’s automotive student safety course completion certificate. *(Frisco 9)*

## **Specialty Colors - The Process and How To Match Them**

**Bob Pittenger**, Learning Content Manager, Axalta Coating Systems

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This interactive session deals with the ever increasing amount of specialty colors, such as Mazda 46G, 46V and Nissan KAB. These require special repair procedures as well as knowledge on how to match them. Bring your questions, and get the tools needed to repair these colors. *(Bush)*

## **New Cascadia Technical Information Session and Get Ahead Program Updates from DTNA Service Training**

**Mike Mallett**, Training Programs Manager, Daimler Trucks North America

**Michael Williams**, Mentor Manager, Daimler Trucks North America

---

Service focused information for instructor product knowledge on the Freightliner New Cascadia. Program status and update on the Get Ahead program. *(Hamilton)*

**2:30 pm - 3:00 pm**  
**Break: Frisco Foyer**



**3:00 pm - 5:00 pm**

***Adopt a High School***

***Joe Myers, T-TEN Manager, Toyota Motor North America***

***Jill Saunders, T-TEN Supervisor, Toyota Motor North America***

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This session will center on some new programs that Toyota is developing to help support Secondary and Post-Secondary automotive programs as well as some initiatives about partnering our Toyota and Lexus dealers with these local programs. *(Frisco 1)*

***Subaru Vehicle Dynamics and Safety Systems***

***Ken Benson, Training Operations Manager, Subaru of America***

***Mitch May, West Region Education Manager, Subaru Univ., Subaru of America***

***Chris Weigel, Subaru University Manager, Subaru of America***

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A look at emerging technologies that are present in today's vehicles from operation and diagnostic perspectives. *(Frisco 2)*

***Become System Smart!***

***Bobby Bassett, National Manager of Training, Gates***

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During the session, you will explore the % of high rates of warranties for components in the Accessory Belt Drive System (ABDS) and why it's happening. Bobby will communicate system insight, examine root cause failures and provide best practices when working on this system. After this session you will be able to:

- Explain why up to 40% of batteries, 70% of alternator and 98.2% of belts returned to the factory as warranties, performed as intended
- Describe why belt noise is symptomatic of a system failure, not a belt issue
- Identify belts for root cause failure and recommend the corrective action of repair
- Diagnose a tensioner for failure using the "Spin Cycling" test
- Demonstrate how to check for correct system alignment using the Gates Laser Alignment tool
- Describe the purpose of a Decoupler Pulley and how to diagnose it for failure
- Communicate and simplify failures along with corrective action to the customers using a left hand / right hand diagnosis or repair approach.

We will continue the discussion by exploring the % of high rates of warranties for components in the coolant system and why condition of coolant means everything for the coolant system. After this session you will be able to:

- Explain why coolant manufacturers have begun to change their warranty process
- Explain why up to 40% of radiators and 95% of water pumps can fail prematurely
- Describe why "if" certain conditions prevail in the coolant system, failure can be imminent
- Identify two separate, but unrelated, challenges creating failures in today's coolant systems
- Explain why partial replacement of coolants should become a thing of the past when facilitating a repair
- Communicate and simplify failures along with corrective action to the customers using a left hand / right hand diagnosis or repair approach
- Learn about the new modular hoses and understand why installing the incorrect hose may create failure in the coolant system
- Describe why silicone hose may be unneeded for today's coolant system.

*(Frisco 3)*

## **Video Content Creation Tips and Best Practices**

**Scott Brown**, President, Diagnostic Network

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The goal of this session is to increase the production value on the videos you and your students record in the classroom, lab, and work environments. We will be covering the following:

Photography basics ♦ Cameras ♦ Cell phones for both photos and videos along with some great apps ♦ Exposure ♦ Lighting ♦ Color/White Balance ♦ HD vs 4k ♦ Sound ♦ Creative ♦ Video editing applications ♦ Video editing

In the class, we will collect video footage and stills and import them into a project and edit them into a short movie. (*Frisco 4*)

## **Audi New Technologies / Mild Hybrid Vehicles**

**Jim Doyle**, Instructor, Audi Technical Training

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This session will cover the introduction of the 2019 new models which have the 48 volt mild hybrid electrical system. New version of Audi Drivers Assist will also be discussed along with calibration information.

(*Frisco 5*)

## **How to Prepare and Pass the ASE L3 Test and Become an Expert for HV Batteries with Modern and Safe Training Methods**

**Christian Klinger**, Product Manager Automotive, Lucas-Nuelle

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Attendees will learn how to prepare for the ASE L3 Test for Hybrid/Electric vehicles that will include safety handling and performing maintenance procedures using High Voltage batteries. (*Frisco 7*)

## **A Few Things They Don't Tell You About Vehicle Electrical–Electronic Systems**

**Vince Fischelli**, Director of Training, Veejer Enterprises Inc.

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Starts with showing where we began with electrical systems and where we are going today. Discusses time proven electrical testing procedures that work regardless of the complexity of the vehicle. Think you know how to test a battery? Watch this! They never told you about this vital battery test. How computer control charging systems work and how to test them. How to ensure onboard computers are not damaged and work properly. A few final electrical-electronics troubleshooting tips. Solutions for teaching students about electrical-electronics. (*Frisco 8*)

## **Introducing Electric and Hybrid Drive to your Students**

**Catherine Treanor**, UK Business Development Manager, Electude

**Darcy Wedel**, North American Sales Manager, Electude

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This course is designed so you can walk away with the confident ability to deliver an introduction to Electric Drive to your students. I will show you a sample lesson of how to introduce Electric Drive to students and what the benefits are of inspiring your students now—not next year or in three years—because hybrid vehicles are driving around right now. It is your responsibility to inspire them on the newest technology and kick-start their career. This topic can sometimes be daunting so come along to gain a basic understanding and put yourself in the students' shoes. (*Frisco 9*)

**3M Collision Repair Academy: On-Demand eTraining for the Collision Industry**

**Jason Scharon, Global Business Development Manager, 3M**

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Come find out how 3M can be a resource to enhance your automotive repair training! The 3M Collision Repair Academy offers courses that will expand your knowledge, deliver practical procedures that you can use right away, and, in many cases, earn you I-CAR credits. As the modules are based on real-world repair situations that teach how to produce consistent, high-quality results in our ever-changing industry, they will help you – whether an “old pro” or a new apprentice – enhance your skills and grow your career. *(Bush)*

**CNG Vehicles: Safety Practices, Inspections, Diagnostics and Maintenance**

**Annaloyd Thomason, Vice President/General Manager, Natural Gas Vehicle Institute (NGVi)/UPS**

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CNG vehicles are now mainstream in fleets across the U.S. In this session, participants will learn about the unique aspects of compressed natural gas as a vehicle fuel, safety practices every technician working on or around CNG vehicles must deploy, and the inspection intervals and requirements for CNG fuel systems. Basic diagnostics and maintenance challenges will also be discussed. *(Hamilton)*

**NETWORKING EVENT**  
**FRISCO ROUGH RIDERS BASEBALL**  
**GAME & DINNER**  
**DR. PEPPER BALLPARK**  
**MEET IN HOTEL LOBBY AT 6:00 PM**

**Thurs., July 25**

**6:00 am - 8:00 am**

**Breakfast: Atrium (complimentary for Embassy Suites guests)**

**8:00 am - 10:00 am**

***A Systematic Approach to Teaching On-Board Diagnostics II***

***Rick Escalambre, Retired, AES***

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This workshop will provide a systematic approach to teaching OBDII. OBDII regulations were written prior to the implementation of the system on vehicles. OBDII has evolved from non-CAN systems to expanded diagnostics for CAN applications. Some textbooks have been written based on regulations, not reality. The subject matter will cover the realities of MODES \$01-\$0A. (*Frisco 1*)

***TBD***

***Tom Rayk, Training Manager, NAPA***

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TBD. (*Frisco 2*)

***Become System Smart!***

***Bobby Bassett, National Manager of Training, Gates***

---

During the session, you will explore the % of high rates of warranties for components in the Accessory Belt Drive System (ABDS) and why it's happening. Bobby will communicate system insight, examine root cause failures and provide best practices when working on this system. After this session you will be able to:

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- Learn about the new modular hoses and understand why installing the incorrect hose may create failure in the coolant system
- Describe why silicone hose may be unneeded for today's coolant system. (*Frisco 3*)

## ***Snap-on Diagnostics - Intelligent Diagnostics and Advanced Driver Assistance Systems (ADAS)*** ***Nathan Herschbach, Diagnostics Sales Developer, Snap-on Tools***

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Introduction to Snap-on's exclusive Intelligent Diagnostics support solution for the modern technician and an overview and dive into ADAS (Advanced Driver Assistance Systems) (Frisco 4)

## ***Audi's First EV Etron Quattro & HVE /HVT Technician Certifications*** ***Jim Doyle, Instructor, Audi Technical Training***

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In this session we will introduce the 2019 Audi Etron Quattro, Audi's first fully electric vehicle. Along with an overview of the High Voltage system we will explore how Audi is certifying its technicians in the HVE and HVT qualifications. (Frisco 5)

## ***Analyzing Ignition Scope Waveforms: The Lost Art*** ***Jim Wilson, Instructor, AVI***

---

Using Mode \$06 to determine a misfire is a common practice these days. But analyzing the ignition pattern waveform can give you the clues to the reason for the misfire. The primary and secondary patterns show the reasons and give hints for the fix. There are three problems—fuel, compression or ignition—that cause misfires. The testing of ignition waveforms has changed as we have progressed for distributor, distributorless waste spark, and now coil-on-plug or coil-near-plug systems. We can't test the ignition systems as we did in the big-box engine analyzer days. Come to this class as a refresher and learn some new system testing procedures. (Frisco 7)

## ***2019 MY General Motors Vehicles Features and Updates*** ***Brian Blackwell, Senior Training Specialist, General Motors***

---

Explore the new technologies of the General Motors powertrains for 2019. We will begin with the new Denso Fuel System and continue with the new model features of the 2.8 LWN Duramax Diesel used in the Colorado and Canyon platforms and 1.6 LH7 Diesel in the Chevrolet Equinox and GMC Terrain. Moving to the gasoline-fueled powertrains, we will explore the 2.0 LSY used in the Cadillac XT4 and the 2.7 L3B in the 2019 Silverado and Sierra. Focusing on the Cylinder Set Strategy Engine Family including the Active Thermal Management System that eliminates the thermostat and incorporates a new electric coolant pump. (Frisco 8)

## ***TPMS Holding Up the Bay? Learn the VDO Way!*** ***Sean Lannoo, Sales Technical Training Specialist, Continental Automotive Systems***

---

Vital TPMS service tools and functions - Correct maintenance and service techniques - Importance of the Relearn procedure - Important legislature - System types and how they operate - Preventive maintenance - Includes hands-on Tool and Vehicle Relearn demonstration. (Frisco 9)

## ***Subaru Driver Assist – Operation and Maintenance for the Collision Technician Part 1*** ***Terry Boettger, Technical Education Manager, Subaru of America***

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This **3.5-hour** course overviews Subaru's Drivers Assist Systems. These include Eyesight® Collision Avoidance and Adaptive Cruise Control System, Blind Spot Detection (BSD), Rear Cross Traffic Alert (RCTA), Reverse Automatic Braking (RAB). Also on Ascent vehicles the Front View Monitor and Rearview Camera. Aspects of construction, operation and maintenance will be covered along with critical information about calibration for these systems where applicable. Continues into 10:30 session. (Bush)

## ***Wheel Ends - Heavy Duty Truck and Trailer***

***Roger Maye, National Service Manager, Consolidated Metco***

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CNG vehicles are now mainstream in fleets across the U.S. In this session, participants will learn about the unique aspects of compressed natural gas as a vehicle fuel, safety practices every technician working on or around CNG vehicles must deploy, and the inspection intervals and requirements for CNG fuel systems. Basic diagnostics and maintenance challenges will also be discussed. *(Hamilton)*

## **10:00 am - 10:30 am Break: Frisco Foyer**

### **10:30 am - 12:00 pm**

#### ***HVAC Diagnosis and Repair Solutions***

***Ryan Kooiman, Director of Training, Standard Motor Products, Inc.***

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In this update to our very popular HVAC series, we will look at new developments in systems designs, controls, service techniques and tools. Each year, the manufacturers face stricter regulations regarding emissions and fuel economy and improving the efficiency of HVAC systems is a big part of their response. The next refrigerant, r1234yf, is being used in more vehicles and you will need to be prepared for diagnosis and service of these systems. The electronic controls for HVAC have become more complex and need to be part of your diagnostic process. We will show you how these systems work, what goes wrong, and how to complete a successful repair. Be ready to help your customer stay comfortable in their vehicle. *(Frisco 1)*

#### ***Information: You Can't Fix a Car Without it***

***Donny Seyfer, Executive Officer, NASTF***

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As Executive Officer for the National Automotive Service Task Force, Donny Seyfer fields hundreds of calls that focus on one topic, "Where do I find information to \_\_\_\_\_?"

The NASTF mission is to identify and fill gaps in service information, education and tooling. Join Donny for pointers on how to access automaker and aftermarket information faster and better, and even things you did not know were available. The information and tool landscape has changed dramatically in the last year. Are you tapping into what is available to you?

- Tours of new website features for automakers and 3rd party information
- How scan tools can have their capabilities extended by integration with web content
- How cloud-based data can be utilized by technicians to diagnose intermittent drivability issues while the customer drives the car
- Tips for identifying what you will need before the vehicle arrives
- What does service ready mean in 2019 and beyond? *(Frisco 2)*

#### ***Electrical Diagnostics***

***Troy Mennis, Electromechanical Instructor, Solera/Identifix***

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This session will focus on the information that an Automotive/Diesel Truck/Collision technician will need to successfully diagnose an electrical fault in any vehicle. The course will be hands-on. *(Frisco 3)*

## ***eTorque Operation***

***Cecil Williams, Area Technical Training Manager, Fiat Chrysler Automobiles***

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This session will cover the operation of the eTorque System and the Belt/Start Generator system on FIAT Chrysler Automobiles vehicles. *(Frisco 4)*

## ***Essential Skills for Sensor and Actuator Diagnosis***

***Robert Esterbrook, Technical Instructor, Robert Bosch, LLC***

---

The check engine light is on and you're following a diagnostic flow chart with a series of yes or no options and at some point in the process, it recommends replacing a part or repairing a circuit. Are you 100% confident the flow chart has pointed you in the right direction? How many of you have followed the diagnostic process only to find the known good part or repair did not fix the problem? This seminar will provide a solid diagnostic validation process, with a specific focus on common sensors and actuators, which will ensure you diagnose the vehicle right the first time. Topics covered:

- Electrical circuit analysis for common sensors and actuators
- Learn how to create a baseline for circuit diagnosis and validation
- Develop a diagnostic plan after researching the issue
- Learn how to get the most out of your diagnostic tools. *(Frisco 5)*

## ***How to Prepare and Pass the ASE L3 Test and Become an Expert for HV Batteries with Modern and Safe Training Methods***

***Christian Klinger, Product Manager Automotive, Lucas-Nuelle***

---

Attendees will learn how to prepare for the ASE L3 Test for Hybrid/Electric vehicles that will include safely handling and performing maintenance procedures using High Voltage batteries. *(Frisco 7)*

## ***Pedestrian Safety Systems***

***Wade Jackson, Technical Training Instructor, ACDelco***

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This in-shop training covers Front Pedestrian Braking (FPB) and Pedestrian Impact Detection System (PIDS). Topics discussed will include the need for pedestrian safety systems, description and operation of these systems, and replacement and repair procedures. This course is suited to both mechanical and collision instructors. The technology taught in this course will be very new to the vast majority of instructors. *(Frisco 8)*

## ***Accreditation 101 Part 1***

***George Arrants, Manager, ASE Education Foundation***

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This 2-part session is to assist in taking the guesswork out of the accreditation process and provide you with information and tips to not only earn accreditation but also create program improvements and secure the tools and resources you need for your program. This will include information on advisory committee involvement, curriculum, tools and equipment and how the process validates those items you need for your program and may have had difficulty securing in the past. To complete the class you must attend both sessions. *(Frisco 9)*

## ***Subaru Driver Assist-Operation and Maintenance for the Collision Technician Part 2***

***Terry Boettger, Technical Education Manager, Subaru of America***

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Continuation of **3.5-hour** course (started at 8:00 am) provides an overview of Subaru's Drivers Assist Systems. These include Eyesight® Collision Avoidance and Adaptive Cruise Control System, Blind Spot Detection (BSD), Rear Cross Traffic Alert (RCTA), Reverse Automatic Braking (RAB). Also on Ascent vehicles the Front View Monitor and Rearview Camera. Aspects of construction, operation and maintenance will be covered along with critical information about calibration for these systems where applicable. *(Bush)*

## ***Medium Duty Aftertreatment & Strategy Based Diagnostics***

***Andy Curtin, Lifecycle Training Manager, Isuzu Commercial Truck of America, Inc.***

***John Renno, Training Manager, Isuzu Commercial Truck of America, Inc.***

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Hear about Isuzu's diesel aftertreatment systems in detail along with diagnostic strategies to deal with "Diesel Fatigue." We'll also talk about the importance of a consistent diagnostic approach to any customer concern. Finally, we'll provide an opportunity to enroll for access to Isuzu's online content for your students. *(Hamilton)*

**12:00 pm - 1:00 pm**

**Lunch: Frisco 6**

**1:00 pm - 2:30 pm**

## ***Automotive Industry Trends and Why Teaching Basic Electrical Doesn't Work Anymore***

***Skip Saurman, Consultant, Megatech Corporation***

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New vehicles are extremely complex. Learning electrical/electronic principles is critical for your students in order to diagnose today's modern vehicles. Are every one of your students competent in these vital concepts? If not, let's discuss why not and we'll make an attempt to fix it! *(Frisco 1)*

## ***Information: You Can't Fix a Car Without it***

***Donny Seyfer, Executive Officer, NASTF***

---

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## **Electrical Diagnostics**

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This session will focus on the information that an Automotive/Diesel Truck/Collision technician will need to successfully diagnose an electrical fault in any vehicle. The course will be hands-on. (*Frisco 3*)

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Introduction to the Automotive Lift Institute (ALI) and its nationally accredited Lift Inspector Certification Program as well as discussion of lift operator safety and ALI's Lifting It Right online training certificate course. ALI's mission is to promote the safe design, construction, installation, inspection, and use of automotive lift products. (*Frisco 7*)

## **A/C Compressor Replacement**

**Wade Jackson**, *Technical Training Instructor, ACDelco*

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This in-shop training session will cover important tips and procedures for replacing A/C compressors to ensure a long service life. Topics include: system contamination and flushing procedures, and the selection of correct refrigerant oil. This course is suited to both Mechanical and Collision Instructors. (*Frisco 8*)

## **Accreditation 101 Part 2**

**George Arrants**, *Manager, ASE Education Foundation*

---

This 2-part session is to assist in taking the guesswork out of the accreditation process and provide you with information and tips to not only earn accreditation but also create program improvements and secure the tools and resources you need for your program. This will include information on advisory committee involvement, curriculum, tools and equipment and how the process validates those items you need for your program and may have had difficulty securing in the past. To complete the class you must attend both sessions. (*Frisco 9*)

### ***Rivets, Adhesives and the Proper Repairs of Today's Vehicles***

***Kelly Logan, Director Technical Services, Car-O-Liner***

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Presentation on popular mechanical fasteners (rivets) and adhesives used by automotive OEMs on today's vehicle repairs. The discussion will also outline the importance of using the proper rivets and adhesives that are listed in the OEM Repair Procedures. *(Bush)*

### ***New Cascadia Technical Information Session and Get Ahead Program Updates from DTNA Service Training***

***Mike Mallett, Training Programs Manager, Daimler Trucks North America***

***Michael Williams, Mentor Manager, Daimler Trucks North America***

---

Service focused information for instructor product knowledge on the Freightliner New Cascadia. Program status and update on the Get Ahead program. *(Hamilton)*

**2:30 pm - 3:00 pm**  
**Break: Frisco Foyer**

### **3:00 pm - 5:00 pm**

#### ***A Systematic Approach to Teaching Pressure Transducers***

***Rick Escalambre, Retired, AES***

---

Two of our most tried and true tools over the years are the vacuum and compression gauges. They have served us all well over the years, but have they seen better days and been surpassed by electronic vacuum/pressure transducers and lab scopes? Lab scopes have become a way of life for today's diagnostic technician. Combined with accessories such as current probes, secondary ignition pickups, vacuum and pressure transducers, the lab scope is a more effective diagnostic/teaching tool. If you are teaching the Four-Stroke Cycle, pressure transducers will give you some "new" techniques for teaching and diagnosing the Four-Stroke Cycle. *(Frisco 1)*

***TBD***

***Tom Rayk, Training Manager, NAPA***

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TBD. *(Frisco 2)*

#### ***A Little Bit of Electrical, A Little Bit of Electronics!***

***Vince Fischelli, Director of Training, Veejer Enterprises Inc.***

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In this seminar, Vince takes excerpts from his electrical-electronics troubleshooting workshops to give attendees an overview of troubleshooting vehicle electrical and electronic system problems. The class begins with troubleshooting tips of a vehicle's essential electrical system to verify it can support the vehicle's on-board electronic system which can have its own set of problems; then moves into troubleshooting electronic system problems. *(Frisco 3)*

## ***Snap-on Diagnostics - Intelligent Diagnostics and Advanced Driver Assistance Systems (ADAS)***

***Nathan Herschbach, Diagnostics Sales Developer, Snap-on Tools***

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Introduction to Snap-on's exclusive Intelligent Diagnostics support solution for the modern technician and an overview and dive into ADAS (Advanced Driver Assistance Systems) (*Frisco 4*)

## ***Developing ASE Style Tests***

***Don Dew, Consultant, ASE***

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Participants of this session will experience the ASE test question development process through an interactive mini-workshop. Following a brief overview of the statistical validation procedures used by ASE and a short lesson on test question writing techniques, participants will author and submit items and participate in the group review and edit of those items. These questions will then become the foundation of a new item bank that can be drawn from to develop written tests for local skill competitions. As a result of this session, participants will be able to better identify and avoid common pitfalls in test question development for their own classrooms. (*Frisco 5*)

## ***Analyzing Ignition Scope Waveforms: The Lost Art***

***Jim Wilson, Instructor, AVI***

---

Using Mode \$06 to determine a misfire is a common practice these days. But analyzing the ignition pattern waveform can give you the clues to the reason for the misfire. The primary and secondary patterns show the reasons and give hints for the fix. There are three problems—fuel, compression or ignition—that cause misfires. The testing of ignition waveforms has changed as we have progressed for distributor, distributorless waste spark, and now coil-on-plug or coil-near-plug systems. We can't test the ignition systems as we did in the big-box engine analyzer days. Come to this class as a refresher and learn some new system testing procedures. (*Frisco 7*)

## ***2019 MY General Motors Vehicles Features and Updates***

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Explore the new technologies of the General Motors powertrains for 2019. We will begin with the new Denso Fuel System and continue with the new model features of the 2.8 LWN Duramax Diesel used in the Colorado and Canyon platforms and 1.6 LH7 Diesel in the Chevrolet Equinox and GMC Terrain. Moving to the gasoline-fueled powertrains, we will explore the 2.0 LSY used in the Cadillac XT4 and the 2.7 L3B in the 2019 Silverado and Sierra. Focusing on the Cylinder Set Strategy Engine Family including the Active Thermal Management System that eliminates the thermostat and incorporates a new Electric Coolant pump. (*Frisco 8*)

## ***TPMS Holding Up the Bay? Learn the VDO Way!***

***Sean Lannoo, Sales Technical Training Specialist, Continental Automotive Systems***

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Vital TPMS service tools and functions - Correct maintenance and service techniques - Importance of the Relearn procedure - Important legislature - System types and how they operate - Preventive maintenance - Includes hands-on Tool and Vehicle Relearn demonstration. (*Frisco 9*)

## Induction System Diagnosis and Repair

Ryan Kooiman, Director of Training, Standard Motor Products, Inc.

Both gasoline and diesel engines use sophisticated induction systems which include exhaust gas recirculation, manifold tuning, turbocharging and supercharging. In this class we will introduce these systems and show how they can affect diagnosis of symptoms such as low power, fuel trim codes, and low fuel economy. We will use case studies to demonstrate field diagnostics and fixes on both gasoline and diesel engines. (Bush)

## No-Idle Technology

Ramon Perez, Bilingual Diesel Trainer, Navistar

The No-Idle Unit provides customer/driver sleeping comfort by providing a cool sleeping environment during the summer months, and a warm sleeping environment during winter months. (Hamilton)

## Save The Date!



*It's just so nice, we're coming back thrice!*

**When:** July 14 – 17, 2020

**Where:** Embassy Suites, Frisco, TX

### Tentative Agenda:

Tuesday, July 14, 2020:

- Travel Day
- Conference Opens with a Welcome Reception

Wednesday, July 15, 2020:

- Technical Training Sessions Begin
- Sponsor Expo

Thursday, July 16, 2010:

- Technical Training Sessions Continue

Friday, July 17, 2020:

- Technical Training Sessions Continue
- Conference Ends

**Registration opens early 2020!  
Stay tuned!**





# Education Foundation

## Program Overview

The National Institute for Automotive Service Excellence (ASE) **Entry-Level** certification tests indicate a level of practical workforce readiness for candidates beginning a career in the automotive service industry. ASE Entry-Level certification tests are available for the Automobile, Collision Repair/Refinish and M/H Truck segments and delivered to your students in your school.

ASE Entry-Level certification is the first step in building career credentials as an automotive service professional.



## ASE Entry-Level Tests

[ASE.com/Entry-Level](http://ASE.com/Entry-Level)

### AUTOMOBILE

- Maintenance and Light Repair
- Automobile Service and Technology
- Engine Repair
- Automatic Transmission/Transaxle
- Manual Drive Train and Axles
- Suspension and Steering
- Brakes
- Electrical/Electronic Systems
- Heating and Air Conditioning
- Engine Performance

### COLLISION REPAIR / REFINISH

- Painting and Refinishing
- Structural Analysis and Damage Repair
- Non-structural Analysis and Damage Repair
- Mechanical and Electrical

### M/H TRUCK

- Diesel Engines
- Electrical/Electronic Systems
- Brakes
- Suspension and Steering
- Inspection Maintenance & Minor Repair

## ASE Entry-Level Program Pricing

| Entry-Level certification program pricing |     | Basis      |          | Non-Accredited Programs | ASE Accredited Programs |
|---|-----|------------|----------|-------------------------|-------------------------|
| Seat License                              |     | per person |          | \$45.00                 | \$40.00                 |
| Site License                              | 30  | user       | per site | \$1,290.00              | \$1,140.00              |
|   | 50  | user       | per site | \$2,100.00              | \$1,850.00              |
|   | 100 | user       | per site | \$4,100.00              | \$3,600.00              |
|   | 200 | user       | per site | \$8,000.00              | \$7,000.00              |

ASE is required to collect sales tax for applicable purchases in CO, HI, NJ, NM, NY, OH, SC, SD, TX, VA, WA, and WV.

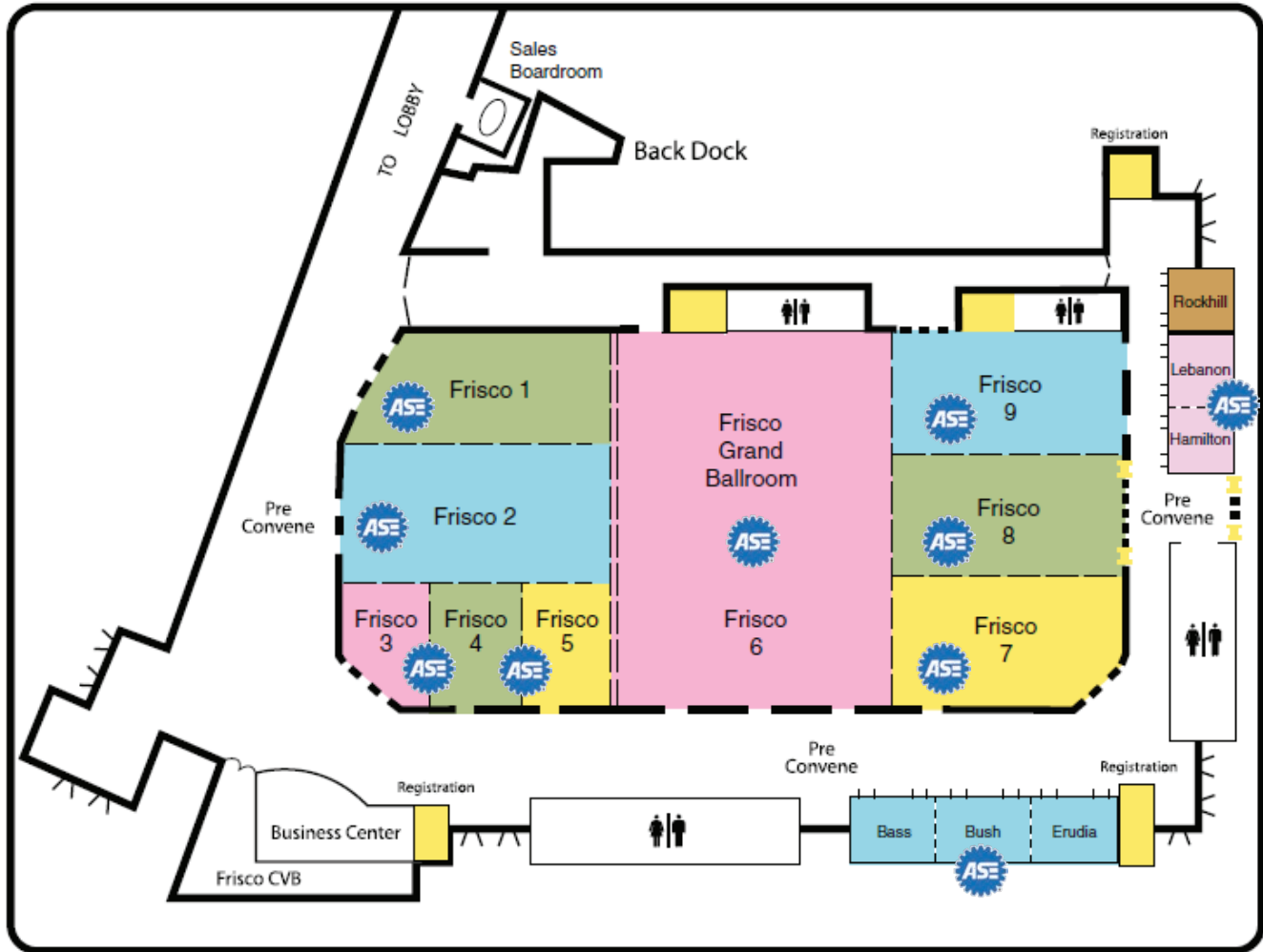
**2019 ASE Instructor Training Conference Seminar Schedule**

| Embassy Suites  |                   |                |  |   |                     |                                      |                   |                                |  |  |                             |                                   |                                    |                                     |                                    |
|---|-------------------|----------------|--|---|---------------------|--------------------------------------|-------------------|--------------------------------|--|--|-----------------------------|-----------------------------------|------------------------------------|-------------------------------------|------------------------------------|
| <p align="center"><b>Monday, 7/22</b></p> <p align="center">ASE Testing: 9:00am - 4:00pm<br/>Sea Biscuit</p> <p align="center"><b>Welcome Reception: 6:00pm - 8:00pm</b><br/>Frisco 6</p>   |                   |                |  |   |                     |                                      |                   |                                |  |  |                             |                                   |                                    |                                     |                                    |
| <p align="center"><b>Tuesday, 7/23</b></p> <p align="center"><b>First Day of Training Sessions</b><br/>Breakfast (Complimentary for Embassy Suites guests.)<br/>Atrium</p> <p align="center">ASE Testing: Sea Biscuit<br/><b>Kickoff Meeting</b><br/>Mike Coley, President, ASE Education Foundation<br/>Frisco 1&amp;2</p> <p align="center"><b>Perkins V</b><br/>Michael Brustein, Partner, Brustein &amp; Manasevit, PLLC<br/>Frisco 1&amp;2</p> <p align="center"><b>Dubiski Career High School: How to Place 800 Interns from One School!</b><br/>Dr. Susan Hull, Superintendent, Grand Prairie ISD; Robert "Bert" Fulgium, VP of Machine Product Support, Holt Caterpillar; Tony Carimi, COO, Park Place Dealerships; John Tostanoski, Technical Placement Specialist, Ford Motor Company; Lynn McGinley, Former President, Grand Prairie Chamber of Commerce; Rick Elmore, Coordinator of CTE, Grand Prairie ISD; Winston Minix, Executive Director of CTE, Grand Prairie ISD; Students, Dubiski Career HS<br/>Frisco 1&amp;2</p> <p align="center">Break<br/>Frisco Foyer</p> |                   |                |  |   |                     |                                      |                   |                                |  |  |                             |                                   |                                    |                                     |                                    |
| 6:00 - 8:00 am  | 9:00am - 4:00pm   | 8:00 - 8:30 am | Automotive Education Development Sessions 8:30 - 9:30 am | Automotive Education Development Sessions 9:30 - 10:30 am | Break 10:30 - 11:00 | 1                                    | 2                 | 3                              | 4                                      | 5  | 6                           | 7                                 | 8                                  | 9                                   | 10                                 |
|   |                   | Frisco 1 (70)  | WD-40<br>Chris Aiello                                    | Team Torque<br>Rich Sabot<br>Lee Winterberg               | Frisco 2 (70)       | Frisco 3 (70)                        | S/P2<br>Kyle Holt | AutoUpkeep.com<br>Michael Gray | Driven Racing Oil<br>Lake Speed, Jr.   | Frisco 5 (70)                              | Nissan<br>Edward<br>Simmons | VW<br>John Craven                 | Goodheart-Willcox<br>Luke Thompson | Sherwin-Williams<br>Michael Pellett | Isuzu<br>Andy Curtin<br>John Renno |
| <p align="center"><b>Lunch</b><br/>12:30 - 1:30 pm<br/>Frisco 6</p>   |                   |                |  |   |                     |                                      |                   |                                |  |  |                             |                                   |                                    |                                     |                                    |
| 1:30 - 3:00 pm  | Break 3:00 - 3:30 | 3:30 - 5:00 pm | Sponsor Expo 5:00 - 7:30 pm                              | Break 6:00 - 8:00 am                                      | ATMC 6:45 - 7:45am  | 9:00am - 4:00pm                      |                   |                                |  |  |                             |                                   |                                    |                                     |                                    |
|   |                   | 1              | 2  | 3   | 4                   | 5                                    | 6                 | 7                              | 8                                      | 9  | 10                          |                                   |                                    |                                     |                                    |
|   |                   | Frisco 1 (70)  | Steve Johnson Racing<br>Steve Johnson                    | K&N Engineering<br>Steve Gibson                           | ASE<br>Don Dew      | Megatech Corporation<br>Skip Saurman | Ford<br>Don Cofer | DriV<br>Joshua Wilson          | TWC<br>Emily Clodfelter<br>Major Jones | ASE Education Foundation<br>George Arrants | 3M<br>Jason Scharton        | Redline Detection<br>Mark Hawkins |                                    |                                     |                                    |
| <p align="center"><b>Wednesday, 7/24</b></p> <p align="center">Breakfast (Complimentary for Embassy Suites guests.)<br/>Atrium</p> <p align="center">ATMC Roundtable: Frisco 2<br/>ASE Testing: Sea Biscuit</p>   |                   |                |  |   |                     |                                      |                   |                                |  |  |                             |                                   |                                    |                                     |                                    |
| 6:00 - 8:00 am  | 9:00am - 4:00pm   | 6:45 - 7:45am  | 9:00am - 4:00pm  |   |                     |                                      |                   |                                |  |  |                             |                                   |                                    |                                     |                                    |
|   |                   | 1              | 2  | 3   | 4                   | 5                                    | 6                 | 7                              | 8                                      | 9  | 10                          |                                   |                                    |                                     |                                    |
|   |                   | Frisco 1 (70)  | Steve Johnson Racing<br>Steve Johnson                    | K&N Engineering<br>Steve Gibson                           | ASE<br>Don Dew      | Megatech Corporation<br>Skip Saurman | Ford<br>Don Cofer | DriV<br>Joshua Wilson          | TWC<br>Emily Clodfelter<br>Major Jones | ASE Education Foundation<br>George Arrants | 3M<br>Jason Scharton        | Redline Detection<br>Mark Hawkins |                                    |                                     |                                    |
| <p align="center"><b>Location:</b></p>  |                   |                |  |   |                     |                                      |                   |                                |  |  |                             |                                   |                                    |                                     |                                    |
|   |                   | Frisco 1 (70)  | Frisco 2 (70)  | Frisco 3 (70)   | Frisco 4 (70)       | Frisco 5 (70)                        | Frisco 6 (70)     | Frisco 7 (70)                  | Frisco 8 (70)                          | Frisco 9 (70)                              | Bush (70)                   | Frisco 9 (70)                     | Bush (70)                          | Hamilton (70)                       |                                    |

|                                |  |  |  |  |                                   |   |  |  |  |                                |
|--------------------------------|--|--|--|--|-----------------------------------|---|--|--|--|--------------------------------|
| Seminar #4<br>8:00 - 10:00 am  |  | <b>Subaru</b><br>Ken Benson<br>Mitch May<br>Chris Weigel                                       | <b>ATech</b><br>Laura Lyons<br>Brian Jenkins<br>Mark McKinney<br>Lyle Taylor | <b>Diagnostic Network</b><br>Scott Brown               | <b>Cengage</b><br>Andrew Ouimet   | <b>K&amp;D Technical<br/>Innovations</b><br>Keith Littleton | <b>Consulab</b><br>Dick Krieger                            | <b>Electude</b><br>Catherine<br>Treasor<br>Darcy Wedel | <b>FedEx Freight</b><br>Chuck Kerr                               |                                |
| Break<br>10:00 - 10:30         | <b>CARQUEST</b><br>Lonnie Horn                     | <b>Break</b><br>Frisco Foyer   |  |  |                                   |   |  | <b>I-CAR</b><br>Tim McCarty                            |  |                                |
| Seminar #5<br>10:30 - 12:00 pm |  | <b>CDX Learning<br/>Systems</b><br>Ian Giddings<br>Kevin Murphy                                | <b>ATech</b><br>Laura Lyons<br>Brian Jenkins<br>Mark McKinney<br>Lyle Taylor | <b>Schrader</b><br>Jay Poparad                         | <b>Cengage</b><br>Andrew Ouimet   |   | <b>Consulab</b><br>Jeff Curtis                             | <b>CCAR</b><br>Robert McGinn                           | <b>Southeastern<br/>Freight Lines</b><br>Jim Boyd                |                                |
| Lunch<br>12:00 - 1:00 pm       |  | <b>Lunch</b><br>Frisco 6   |  |  |                                   |   |  |  |  |                                |
| Seminar #6<br>1:00 - 2:30 pm   | <b>Toyota</b><br>Joe Myers<br>Jill Saunders        | <b>CDX Learning<br/>Systems</b><br>Kirk VanGelder  | <b>Ford</b><br>Don Cofer   | <b>Schrader</b><br>Jay Poparad                         | <b>WD-40</b><br>Chris Aiello      | <b>Driv</b><br>Joshua Wilson                                | <b>Automotive Lift<br/>Institute</b><br>Robert<br>O'Gorman | <b>CCAR</b><br>Robert McGinn                           | <b>Daimler<br/>Trucks</b><br>Mike Mallett<br>Michael<br>Williams |                                |
| Break<br>2:30 - 3:00           |  | <b>Break</b><br>Frisco Foyer   |  |  |                                   |   |  |  |  |                                |
| Seminar #7<br>3:00 - 5:00 pm   | <b>Toyota</b><br>Joe Myers<br>Jill Saunders        | <b>Subaru</b><br>Ken Benson<br>Mitch May<br>Chris Weigel                                       | <b>Gates</b><br>Bobby Bassett  | <b>Diagnostic Network</b><br>Scott Brown               | <b>Audi</b><br>Jim Doyle          | <b>Lucas-Nuelle</b><br>Christian<br>Klinger                 | <b>Veejer<br/>Enterprises</b><br>Vince Fischelli           | <b>Electude</b><br>Catherine<br>Treasor<br>Darcy Wedel | <b>NGVI/UPS</b><br>Annaloyd<br>Thomason                          |                                |
| Dinner<br>6:00 - 9:00 pm       |  | <b>Networking Event: Frisco Rough Riders Baseball Game &amp; Dinner</b><br>Dr. Pepper Ballpark |  |  |                                   |   |  |  |  |                                |
| <b>Thursday, 7/25</b>          | <b>1</b>   | <b>2</b>   | <b>3</b>   | <b>4</b>   | <b>5</b>                          | <b>6</b>  | <b>7</b>   | <b>8</b>   | <b>9</b>   | <b>10</b>                      |
| <b>Location:</b>               | <b>Frisco 1<br/>(70)</b>                           | <b>Frisco 2<br/>(70)</b>   | <b>Frisco 3<br/>(70)</b>   | <b>Frisco 4<br/>(70)</b>                               | <b>Frisco 5<br/>(70)</b>          | <b>Frisco 7<br/>(70)</b>                                    | <b>Frisco 8<br/>(70)</b>                                   | <b>Frisco 9<br/>(70)</b>                               | <b>Bush<br/>(70)</b>   | <b>Hamilton<br/>(70)</b>       |
| Breakfast<br>6:00 - 8:00 am    |  | <b>Breakfast (Complimentary for Embassy Suites guests.)</b><br>Atrium                          |  |  |                                   |   |  |  |  |                                |
| Seminar #8<br>8:00 - 10:00 am  | <b>AES</b><br>Rick Escalambre                      | <b>NAPA</b><br>Tom Rayk  | <b>Gates</b><br>Bobby Bassett  | <b>Snap-on</b><br>Nathan Herschbach                    | <b>Audi</b><br>Jim Doyle          | <b>AVI</b><br>Jim Wilson                                    | <b>GM</b><br>Brian Blackwell                               | <b>Continental</b><br>Sean Lannoo                      | <b>ConMet</b><br>Roger Maye                                      |                                |
| Break<br>10:00 - 10:30         |  | <b>Break</b><br>Frisco Foyer   |  |  |                                   |   |  |  |  |                                |
| Seminar #9<br>10:30 - 12:00 pm | <b>Standard Motor<br/>Products</b><br>Ryan Kooiman | <b>NASTF</b><br>Donny Seyfer   | <b>Solera/Identifix</b><br>Troy Mennis                                       | <b>Fiat Chrysler<br/>Automobiles</b><br>Cecil Williams | <b>Bosch</b><br>Robert Esterbrook | <b>Lucas-Nuelle</b><br>Christian<br>Klinger                 | <b>ACDelco</b><br>Wade Jackson                             |  | <b>Isuzu</b><br>Andy Curtin<br>John Renno                        |                                |
| Lunch<br>12:00 - 1:00 pm       |  | <b>Lunch</b><br>Frisco 6   |  |  |                                   |   |  |  |  |                                |
| Seminar #10<br>1:00 - 2:30pm   | <b>Megatech Corporation</b><br>Skip Saurman        | <b>NASTF</b><br>Donny Seyfer   | <b>Solera/Identifix</b><br>Troy Mennis                                       | <b>Fiat Chrysler<br/>Automobiles</b><br>Cecil Williams | <b>Bosch</b><br>Robert Esterbrook | <b>Automotive Lift<br/>Institute</b><br>Robert<br>O'Gorman  | <b>ACDelco</b><br>Wade Jackson                             | <b>ASE Education<br/>Foundation</b><br>George Atrants  | <b>Daimler<br/>Trucks</b><br>Mike Mallett<br>Michael<br>Williams |                                |
| Break<br>2:30 - 3:00           |  | <b>Break</b><br>Frisco Foyer   |  |  |                                   |   |  |  |  |                                |
| Seminar #11<br>3:00 - 5:00 pm  | <b>AES</b><br>Rick Escalambre                      | <b>NAPA</b><br>Tom Rayk  | <b>Veejer<br/>Enterprises</b><br>Vince Fischelli                             | <b>Snap-on</b><br>Nathan Herschbach                    | <b>ASE</b><br>Don Dew             | <b>AVI</b><br>Jim Wilson                                    | <b>GM</b><br>Brian Blackwell                               | <b>Continental</b><br>Sean Lannoo                      | <b>Standard<br/>Motor<br/>Products</b><br>Ryan Kooiman           | <b>NAVISTAR</b><br>Ramon Perez |

# Embassy Suites Frisco Convention Center Map

1<sup>st</sup> Floor:



2<sup>nd</sup> Floor:

