

ICAIA Fall 2024 Conference Session Description

Topic Title	Presenter	Company	Description	Time
ASE Accreditation Done Right!	Dan Klecker	ASEEF	ASE Accreditation belongs to the school, not the instructor. My goal is he help with a strategy to have the school own the accreditation process and develop a living document to be prepared for future reviews and renewals regardless of the instructor or administration. I will share best practices that I have learned from the many schools I have assisted over the past 10 years.	10/17/2024 1-2:30 pm
Advisory Committee: Benefit or Requirement?	Dan Klecker	ASEEF	Are you holding advisory meetings to check a box or does your advisory committee benefit your program? We will talk about the techniques to maximize your commiffee's benefit to your program. Do you have an outstanding advisory committee? Come and share how you make it work.	10/18/2024 10:15- 11:45am
Autel Alignment and ADAS Solutions	Eric Sponhaltz	Autel	Session will review the how, why, when, and where ADAS calibrations are required.	10/17/2024 10:00- 11:30am
Collision Instructors Roundtable	Various Industry Professionals	ICAIA	This Roundtable discussion will be co-facilitated with the Alliance of Automotive Service Providers of Illinois (AASPi) Executive Director, Julie Lombardo; I-CAR/ICAIA industry expert, Greg Brink and Collision Repair Education Foundation (CREF) Executive Director, Brandon Eckenrode. There is a lot going on in our industry to help with the talent shortage, I-CAR and several other organizations have initiatives to address the problem. We want to hear from you and work together. What are the best practices that are working, challenges that you are having and open discussion about our programs.	10/17/2024 1-2;30pm
Diagnostic strategies and New Technologies	Jim Doyle	Audi Technical	We will explore the new Audi Master Guild diagnostic class then look at the new Audi Q6 BEV	10/18/2024 8:30- 10:00am
Electric Vehicle Service - Equipotential Bonding	Darcy Wedel	Electude	In this session we will discuss a sometimes overlooked, but very important safety system found on Electric and hybrid vehicles. What is Equipotential Bonding? Its importance and tools for educating and testing.	10/17/2024 10-11:30am
Electronification of the Chassis (A Step into Autonomous Vehicles):	Francisco Moreno	ZF	With the electronification of the chassis, runderstanding of the OE design across multiple systems has become even more important in daily shop repairs. This class presents the correlation between those systems and electro-mechanical parts. ADAS, electronic shock, Smart chassis, electronic steering are all new terms that shops need to be aware of and be able to properly diagnose. 4-wheel steer, another new but old term that is not introduced in the market once again. What makes this class important for a technician is the ability to leave with an understanding of how these changes influence the design of parts and knowledge of fault codes to properly diagnose daily needed repairs.	10/17/2024 10-11:30am
EV Safety and Circuits	Al Santini	Consulab	In this seminar we will look at why to teach anything about EV's, and what to teach. We will look at the safety issue that all schools should be teaching, how to protect yourself and then move into the 2 common circuits (High Voltage Interlock Loop and High Voltage). Time permitting, we will look at simple diagnostics and the use of an insulation tester. We will be using Consulab's EV-400 High Voltage Safety Trainer and a PICO TA467 DMtt/ and Insulation tester. The seminar will be PowerPoint based and have a handout.	10/17/2024 3-4:30pm 10/18/2024 8:30-10am
Exploring the Tesla P90 Model "S" Rear Drive Motor	Curt Ward	Joliet Junior College/ Pearson Education	This class is for any vehicle instructor who wants to know more about the P90 rear drive motor found in the 2012-2020 Tesla Model "S". The class will include disassembly information, system specific inforrnation, and case studies.Highlighted in the class is a transmission power flow demonstrator that can be created by an instructor.	10/17/2024 10-11:30am
Hybrid Electric and Battery Electric Vehicle Safe Handling and Best Practices what instructors need to know.	Bob McGinn	CCAR	A discussion of safety and best practices for handling HEVs and EVs that may have been compromised due to collision, fire, flooding or other extraordinary events. We look deep into the processes that occur when Lithium chemistry batteries enter Thermal Runaway. We review the complexity of fire-fighting techniques to mitigate a vehicle in Thermal Runaway. We also conduct a detailed review of personal protective equipment (PPE) and test equipment students must have to safely handle HEVs and EVs to protect them from shock, fire and arc flash incidents. Proper maintenance of PPE and test gear.	10/18/2024 10:15- 11:45am

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Introducing PWM And Frequency to Your Students	Sam Houston	Atech	Join ATech Training for an exciting 'hands-on' exploration of pulse width modulation and frequency. Discover teaching strategies and new learning opportunities utilizing ATech's latest electrical diagnostic training equipment. Together we will explore the principles and applications of pulse width modulation and frequency controls found in today's automotive systems.	10/17/2024 Sessions 1,2 and 3
Low Cost Training Aid Development and Construction	Anthony M. Heathcoat	SIU Carbondale	This presentation will cover the development and construction of low cost training aids for basic electrical education and replacement components that will work with Atech GM S.E.T. boards and shop built boards.	10/18/2024 10:15- 11:45am
Picoscope in the Classroom	Trevor Schlientz	Autonerdz	Practical applications for introducing the use of a scope at the beginning of a technician's training. 1 class Spread across all 3 Thursday sessions. Some presentation. Some demonstrations and some hands on practice.	10/17/2024 Sessions 1,2 and 3
Rivian Overview	Tom Clarke & Ted Foos	Rivian	Introduction to Rivian's Technical Trades Program , Vehicle and Technical Demonstration. Focus on advance vehicle communications, specifically the updates that Rivian has made toward zonal electrical architecture and the importance of vehicle communication understandings.	10/17/2024 Sessions 1 and 2
Teaching Methods & Best Practices	Ken Adkins & Tim Heim	Maine Township District 207	This session will be more of an open forum. Topics to be discussed to include: 1, Units of study and key labs Units/labs that are successful and Unitsl and labs they are struggling with. 2, Methods for providing student feedback. 3, Learning resources and/or textbooks they are using. 4, The utilization of AI in the classroom. 5, Share out l successful outcome from their program.	10/17/2024 3-4:30pm
Telematics Trouble- How Wireless Technology Has Changed the Automotive Industry	Joe Ragnanese III	SIU Carbondale	This presentation will cover the recent history of telematics in vehicles, the evolution of these technologies and the struggles it has left for not only technicians but consumers as well. Diagnostics of manufacturer specific systems and unique examples will be covered for various diffbrent vehicles.	10/18/2024 8:30-10am
ZF Plug-in hybrid Transmission Technology for BMW and Audi	Francisco Moreno	ZF	The ZF 8HP has proven itself, for more than a decade, that it is among the best transmissions ever produced. The first models of the 8HP, and subsequent models, have all pushed the limits of transmission efficiency. As ZF continues to irnprove the 8HP, adding a Plug-In Hybrid version of the transmission was the next logical step. Become familiar with the latest technology as we cover hybrid transmission basics, torque flow, common failures, and diagnostics of the ZF hybrid transmission.	10/17/2024 3-4:30pm