

CAT Fall 2024 Tentative Workshop List (LATTC Oct-19) Updated 10/1/2024

Name	Title of Presentation	Presentation Description
Thomas Broxholm Retired/Skyline	How much money will you lose in Social Security because of the WEP/GPO?	If you're counting on your Social Security income to add to your retirement pension, Think Again! The Windfall Elimination Provision (WEP) and Government Pension Offset (GPO) could take from 10% to 65% or more of that income out of your pocket. Learn what it is, how it works, how to figure out how much the WEP will impact you and legislation to repealing the WEP/GPO.
Jake Clayson DAKTIC	Teach EVs Like an American	As demand for EV training increases, we're seeing more high-cost European training solutions enter the market. But do these solutions really meet the needs of American students? We'll discuss what to look for in an EV training system and demonstrate some free tools to get started.
Larry Engelbrecht Engelbrecht Consulting	Fast Track Your Auto Student to Over \$60,000 A Year	Bring your administrator and join CTE Researcher Larry Engelbrecht as he reveals eye-opening employability data on what employers truly value most in prospective technician candidates. Is it certificates? Degrees? You will take away invaluable tools you can use to level up your program's effectiveness as well as measurably improve your student outcomes. Find out what dealerships are REALLY looking for when hiring technicians for high-paying positions. See how effective your curriculum and pathway are and how YOU can vastly improve student outcomes. Join Larry Engelbrecht as he shares the latest eye-opening employability data straight from the very people who make hiring decisions!
Richard Escalambre REscalambre.net	Foundational Diagnostics using IPO	The foundation for sound diagnostics revolves around Input, Processing, and Output (IPO) principles. Regardless of the vehicle being worked on, all input and output components should be categorized into groups. Each signal group should be evaluated for its type of signal and critical dimensions. Understanding the relationship between inputs and outputs is essential to effective diagnostics.
Richard Escalambre REscalambre.net	OBD Past, Present, and Future!	<ul style="list-style-type: none"> • Updates on current and proposed rulemaking directly from regulatory entities from around the world • Strategies being employed to ensure powertrains meet current and upcoming global regulations in North America, Europe, and China • The most up-to-date global standards development initiatives • The latest on diagnostic regulations relating to electric vehicles and fuel cells

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<p style="text-align: center;">Dave Hobbs Delphi Aftermarket / Phinia</p>	<p>48 Volts and Beyond - Diagnostics for Electrified Vehicles (4-Hours)</p>	<p>Senior Delphi aftermarket instructor Dave Hobbs covers the components, operation and diagnostics for a variety of electrified vehicles ranging from 48-volt micro-hybrids to BEVS. Topics include HVIL (High Voltage Interlock) circuit diagnosis, main relay testing, isolation faults in high voltage circuits, EVSE (Electric Vehicle Supply Equipment), and electrified vehicle HVAC / thermal management.</p>
<p style="text-align: center;">Dave Hobbs Delphi Aftermarket / Phinia</p>	<p>GDI Fuel Systems: Intro to 3-Phase BLDC Fuel Pumps</p>	<p>This updated class focuses on all things fuel . . . from in tank low pressure fuel pump failure analysis to diagnostic tips on GDI systems and the electronic modules that control them. Details on theory of operation and diagnostics the newer BLDC (Brushless DC) 3-phase in tank fuel pumps will be shared using data PIDS on a RAV4 Prime (PHEV) in the bay.</p>
<p style="text-align: center;">Michael Klyde CYPRESS COLLEGE</p>	<p>Creating short videos to support your Auto Tech Courses with IMovie</p>	<p>Creating short videos using I-Movie</p>
<p style="text-align: center;">Elie Massabki Skilled2Hire LLC</p>	<p>Electronic Task Worksheets with Real Time Mentoring & Detailed Student Lab Transcripts</p>	<p>This interactive workshop will discuss ways to save time creating and maintaining lab task worksheets, and remotely mentoring and coaching your students in real-time. We will discuss the challenges that students face when entering the workforce and how to create detailed electronic transcripts of their lab work to demonstrate their strengths to future employers.</p>
<p style="text-align: center;">Jack Rosebro Earthling Automotive</p>	<p>The Battery Class (all morning)</p>	<p>As plug-in vehicles become more common on our roads, the question arises: are we prepared to deliver comprehensive lessons and labs on batteries and battery packs, and will they be relevant? This class is designed to bring you up to speed on lithium-ion science, with a couple of necessary detours into lead-acid and Ni-MH batteries (you will see why when you come to the class).</p>
<p style="text-align: center;">Tony Salas ATech Training</p>	<p>Developing Essential Circuit Troubleshooting Skills</p>	<p>Today's future technician has a long pathway towards electrical proficiency. Join ATech Training for a "hands-on" course discussing teaching techniques that will aid your students in achieving troubleshooting success. ATech will provide state of the art training equipment allowing you to enhance your troubleshooting skills and develop teaching concepts that you can take back to your class.</p>
<p style="text-align: center;">MegaTech Varant Basmajian</p>	<p>EV, Hybrids and Gas: How electricity and the ECU Control Process:</p>	<p>This is a hands-on training session that will use a unique PIC micro-controller as an ECU. Instructors learn by building a fully functioning ECU with inputs, a relay and a transistor output and carry out a set of activities and learning modules that reflect both EV and gasoline powered vehicles.</p>