



CTI+WTI Miami Dade Certification

2021 Miami Dade County Certification

Course Title	Course Code	Training Type	Duration	Description
Bosch Start/Stop Technology Overview	LBT-352	OLT	1:00	The challenge of achieving 54 MPG by 2025 requires creative solutions and Start/Stop systems provide a cost effective, simple, and energy saving solution. Passenger cars equipped with Start/Stop systems have substantially lower fuel consumption – approximately 8% less than vehicles without Start/Stop systems. Start/Stop vehicles are already on the road in the US and this course sponsored by Bosch and taught by Bob Pattengale will help you get ready. Topics Covered: Overview of Start/Stop systems Review Start/Stop operation strategy Review common components on Start/Stop systems Diagnostic process examples
SMP Keeping it Cool	LBT-353	OLT	2:15	Troubleshooting automotive air conditioning systems can be trickier than many technicians think, especially after replacing a third compressor. In this program, presented by Standard Motor Products director of Training Ryan Kooiman shows step-by-step procedures and a few tricks and tips to help technicians repair A/C systems right the first time. Several case studies are also featured. COURSE OBJECTIVES: Upon completion of this course, the participant will be able to: Explain The Different Components of Automotive MVAC Systems And Their Functions Describe Common Causes Of Failures Of Each MVAC Component Identify When To Flush And When To Replace Components Explain Proper MVAC Testing Procedures Describe Differences Between R-134a And R-1234yf MVAC Systems



CTI+WTI Miami Dade Certification

Import Cylinder Management	LBT-361	OLT	1:00	Like it or not, turning cylinders off and on for fuel economy is here to stay. Instructor Ron Bilyeu explains how import cars handle this technology differently than most domestics. He also points out the differences in cylinder management among the imports, and what took out for when troubleshooting these vehicles. Topics covered: The Mercedes approach to cylinder management and how to deal with Low Speed Pre-ignition issues Mitsubishi Modular Displacement discussion VW, Audi & Porsche ACT system Honda VCM system and why P0420 & P0430 codes appear sometimes Course Objectives: Upon completion of this course, the participant will be able to: Describe The Differences Between Import Cylinder Management Systems Explain The Mercedes Approach to Active Cylinder Management Define The Functionality Of The VW ACT system Explain The Honda VCM System Identify Important PIDs For VCM Service Procedure
Domestic Cylinder Management	LBT-362	OLT	1:00	Domestic Cylinder Management
Critical Scan Tool Analysis On Toyota, Lexus, & Scion Systems - Part 1	LBT-363	OLT	4:00	Longtime AVI instructor Bill Fulton focuses this scan tool course on Toyota systems. Bill shows you how to quickly analyze data to get to the root of systematic issues, including using Global and Enhanced data to get your diagnostics started fast. O2 sensors, fuel trim data, MAF issues and more are discussed in several case studies regarding specific trouble codes. COURSE OBJECTIVES: Upon completion of this course, the participant will be able to: Explain the Advantages of Using Global and Enhanced Scan Tool Data to Begin Diagnostics Interpret Proper Air/Fuel Ratios During Scan Tool Analysis Identify Differences between O2 Sensor Voltage and Milliamp Readings Explain the Diagnostic Advantage of Increasing/Decreasing Injector On Time with a Scan Tool Describe Mass Air Flow Sensor



CTI+WTI Miami Dade Certification

				Pattern Failure Diagnostic Procedures Utilize Toyota IGT and IGF Ignition Signals for Diagnostic Purposes And much more!
Critical Scan Tool Analysis On Toyota, Lexus, & Scion Systems - Part 2	LBT-364	OLT	3:00	Bill Fulton continues his scan tool diagnostics on Toyota systems by covering the additional areas of EVAP systems along with Variable Valve Timing operations and testing. He also offers tips on PCM replacement and immobilizer issues. Includes case studies involving P1354, P2111, P2112 & B2784 codes and more. (This course is a continuation of LBT-363 Toyota Brands: Critical Scan Tool Analysis Part 1) COURSE OBJECTIVES: Upon completion of this course, the participant will be able to: Describe the Toyota EVAP System Testing Strategies Identify Electronic Throttle Control Issues Operate the Toyota Variable Valve Timing Testing Parameters Describe Toyota Immobilizer & Security Lamp Diagnostics Explain the Toyota PCM Replacement Reset Procedures
Fiat Chrysler Automobiles (FCA) 3.0L V6 EcoDiesel	LBT-380	OLT	2:15	Have you have seen the 3.0L EcoDiesel from FCA at your shop yet? You probably will shortly as they come off factory warranty soon. The 2020 is the third generation of this engine design and the changes have made this engine even better. Get a look into this powerful 3.0L EcoDiesel during this course. Newly designed solenoid injectors, from Bosch, have the ability to open and close as many times as Piezo injectors per stroke. Using the latest (5.1) DEF dosing system, get an OE supplier's look into this system. Topics Covered: Changes from 1 – 3 generation EcoDiesel High pressure pump fuel testing Bosch 2.2 balanced solenoid fuel injectors Scope patterns of injector pulses per event DEF dosing control system After-treatment system overview Scan data verifying EGT sensors and much more
AFV Towing Safety	LBT-389	OLT	1:15	A variety of factors in today's transportation arena are making alternative fuel vehicles more common on our nation's roadways. With increased vehicle use, the chance of these new



CTI+WTI Miami Dade Certification

				<p>technologies being involved in a vehicular accident also increases. This course helps participants learn the concerns, differences, and proper procedures to follow when towing an alternative fuel vehicle. The vehicle types covered in this course include electric drive, propane, natural gas, biodiesel, and ethanol. The subjects covered in this course include: Understand the properties of the alternative fuel, including each vehicle's unique components. Recognize the proper personal protective equipment required for the tow operator. Be aware of how to identify each type of alternative fuel vehicle from its more conventionally powered counterparts. Identify the methods and procedures for alternative fuel vehicle fuel spills. Understand how to properly shut down and disable an alternative fuel vehicle. Know standard towing operations for each vehicle type.</p>
--	--	--	--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------