



## CTI Season Line-up Mt. Vernon, IL

*Region #: STL-2815-3*

*Location: TBA*

<i>Course #</i>	<i>Course Name and Description</i>	<i>Hours</i>	<i>Dates</i>
<b>AD-513</b>	<b>Pressure Signature Analysis</b> Many times during the history of the automobile revolutionary diagnostic techniques have come along that changed the way we diagnose and verify the systems on the vehicle in our bay. Pressure Signature Analysis is the latest technique that can save you time and make you money when servicing any vehicle that rolls in the shop. This course covers the use of pressure transducers and flow devices that present a graphic representation of the pressures in the intake manifold, fuel rail or exhaust stream. By understanding the dynamics of these signatures you will be able to pinpoint problems in seconds that may have taken hours or days in the past. Coupled with scan data analysis, this information will take your diagnostic skills to new heights.	<b>8</b>	<b>8/31/2009 - 9/1/2009</b>
<b>Instructor:</b>	<b>Louie Nelson</b>		
<b>AD-514</b>	<b>Vehicle Data Network Diagnosis</b> Vehicle data networks, which have been around for decades, allow multiple modules in an automobile to share information through the use of a one or two-wire data bus. When communication between modules breaks down, the results can sometimes be confusing. This course uses real world examples to illustrate the logical diagnostic process needed to solve complex network communication faults on modern vehicles.	<b>8</b>	<b>11/2/2009 - 11/3/2009</b>
<b>Instructor:</b>	<b>Louie Nelson</b>		
<b>VWA-100</b>	<b>Volkswagen Audi Diagnosis</b> Many technicians shy away from the VW or Audi platforms because they don't understand the way they manage scan data or the way they display wiring diagrams. However these popular European platforms can be your next best profit opportunity because they break often and are easy to repair. The use of track wiring diagrams seems to bring fear to the minds of most techs. This course will dispell those fears and help you understand how to find the direction you need. The use of aftermarket scan tools is also a primary focus of this class helping you leverage the tools you already own when diagnosing these vehicles. Topics covered include display groups, adaptation, coding and programing as well as the limitations of aftermarket tools.	<b>8</b>	<b>1/11/2010 - 1/12/2010</b>
<b>Instructor:</b>	<b>Louie Nelson</b>		
<b>OBD-201</b>	<b>Enhanced OBD-II EGR Diagnostitics</b> This class starts with a review of OBD-101 and continues to the individual monitors. This class covers the EGR systems on the OBD-II vehicles of today. Learn to recognize the different EGR systems and how to diagnose each one. This class will bring you up to date on all the EGR systems used on domestic and import vehicles.	<b>8</b>	<b>3/1/2010 - 3/2/2010</b>
<b>Instructor:</b>	<b>Louie Nelson</b>		
<b>DSL-400</b>	<b>Cummins Diesel Diagnostics</b> The Cummins six cylinder light duty diesel engine is the most popular work vehicle in the US. Used by fleets and contractors alike, the Cummins system presents many unique service opportunities to the general repair facility. This course covers the system strategies that must be understood to properly service these vehicles including preventive maintenance and common failures. Also covered are some of the more common performance modifications that present challenges to the repair industry.	<b>8</b>	<b>4/26/2010 - 4/27/2010</b>
<b>Instructor:</b>	<b>Louie Nelson</b>		
<b>TFT-100</b>	<b>Total Fuel Trim Diagnosis</b> Fuel Trim is the technician's best chance to find the right diagnostic path to solving most all drivability and engine performance problems. This course will dispel the myths about short and long term fuel trim and the instructor will introduce the concept of Total Fuel Trim. It is important that the PCM's total fuel modification be taken into consideration when diagnosing these problems. The effects of Rear Fuel Trim found on most all vehicles today, will also be explained. This is a must see class that will open your eyes to the power of Total Fuel Trim diagnosis.	<b>4</b>	<b>7/19/2010 - 7/19/2010</b>
<b>Instructor:</b>	<b>Louie Nelson</b>		

*Times are 6:00 pm to 10:00 for Monday - Thursday classes; 8:00 am to 5:00 pm for Saturday classes.*

*Check with your local CARQUEST Store for changes and/or updates.*