



## CTI Season Line-up

Wausau, WI

Region #: MAR-26001D-10

Location: TBA

Course #	Course Name and Description	Hours	Dates
PK-201	<b>Catalytic Converter Service</b> In today's service facility, making the right choices when diagnosing and replacing catalytic converters is critical in order to stay in compliance with ever-changing laws and to maximize profitability while still taking care of your customer. CARQUEST Technical Institute has developed this course to help you understand the key issues when dealing with catalytic converters. Laws are changing as we speak, and it is your responsibility to understand them so you stay out of trouble and leverage them to provide your customer with the best solution.	4	11/4/2010 - 11/4/2010
Instructor: Louie Nelson			
NVT-300	<b>Gasoline Direct Injection Diagnosis</b> Gasoline Direct Injection (GDI) systems are becoming common place on late model cars and light trucks. This variation of fuel injection delivers the fuel charge directly into the combustion chamber much like a diesel using a common rail system. The potential benefits of GDI are increased fuel efficiency and power. Of course the GDI fuel control strategies are different than normal MPFI systems and maintenance opportunities present new challenges to the aftermarket repair facility. This class will cover these topics which will enable you to effectively service and maintain GDI systems found on GM, Toyota, Isuzu, Mitsubishi, VW/Audi, Saturn and Mazdas	8	2/16/2011 - 2/17/2011
Instructor: Louie Nelson			
EE-104	<b>Essential Lab-scope Usage</b> The Digital Storage Oscilloscope (DSO) is fast becoming a main stay for the advanced technician. The function as well as the basic operation of the DSO is covered so that a technician can take advantage of many of its DSOs features. Learn to set up the DSO to acquire a waveform and interpret the waveform for diagnostic purposes. Voltage range, time base, and advanced triggering techniques are covered so that any signal may be displayed and diagnosed accurately and efficiently.	4	4/20/2011 - 4/20/2011
Instructor: Louie Nelson			
EE-105	<b>Essential Lab-scope Diagnostics</b> This course is a follow-up to EE104 and delves deeper into actual diagnosis of common vehicle problems using a lab-scope. Over two dozen case studies are organized in a fast-paced course designed to deliver powerful technical tips to maximize the potential of your lab-scope.	4	4/21/2011 - 4/21/2011
Instructor: Louie Nelson			
ETC-501	<b>Electronic Transmission Control Diagnosis</b> Discover how your knowledge of electricity can be used to diagnose electronic transmission faults. Discover the diagnostic procedure for dividing drivability problems between the engine and transmission. This course is designed for the drivability technician as well as the transmission technician.	8	6/1/2011 - 6/2/2011
Instructor: Louie Nelson			
EE-201	<b>Battery Starting &amp; Charging System Diagnosis</b> What should be a staple in your diagnostic arsenal has changed over the past several years because of new technologies. Diagnosis of batteries, starter and alternators now include scan tool and capacitance testing coupled with the essential electronic skills you should possess. This course focuses first on the essential skills of testing the battery, starter and alternator followed by a review of current computerized starting and charging system technologies. Then you'll follow a detailed diagnostic process to accurately diagnose and service these common complex systems.	8	8/3/2011 - 8/4/2011
Instructor: Louie Nelson			

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

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<b>SRS-201</b>	<b>Supplemental Restraint System Diagnosis &amp; Repair</b> Supplemental restraint systems have evolved from a single driver's side airbag mounted in the steering wheel to complex systems which now include passenger side air bags, side impact air bags and vehicle curtain air bags. Modern supplemental restraint systems continue to evolve as engineers find new locations for additional restraint devices every year. Airbags have developed into smart airbag systems using seat sensors that may require calibration. This course covers the operation, safety and replacement procedures of supplemental restraint systems, as well as diagnosis and repair. Also included in this course is a discussion of seat belt pre-tensioners.	<b>8</b>	<b>10/5/2011 - 10/6/2011</b>
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**Instructor: Louie Nelson**

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<b>AD-515</b>	<b>Advanced Diagnostic Challenge</b> This course will challenge you to apply the skills you have learned or the processes you currently use to solve case studies of documented broken vehicles. CTI MINDS-ON TRAINING® techniques will be used to display the data from each vehicle so all students have access to the information needed to solve each problem. By practicing problem solving in the classroom, the technician is better able to recognize the patterns in data when faced with a similar problem in his bay.	<b>8</b>	<b>12/7/2011 - 12/8/2011</b>
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**Instructor: Louie Nelson**

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<b>NVT-701</b>	<b>New vehicle Technologies: Fluids &amp; Lubricants</b> A huge amount of misinformation about camshaft wear, oil gelling, Zinc and the additive package ZDDP are suddenly circulating throughout the automotive industry. Did you know that certain oil supplements can dramatically shorten the life of expensive oxygen sensors and catalytic converters? This course is the result of years of research by a leading industry expert in automotive fluids and lubricants. This course covers: The details of SAE viscosity ratings; API and ILSAC certification; fluid additives and supplements; the solution to oil gelling and sludge formation as well as preventing premature camshaft wear in existing and rebuilt engine.	<b>4</b>	<b>2/1/2012 - 2/1/2012</b>
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**Instructor: Louie Nelson**

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<b>EE-202</b>	<b>Automotive Electronics</b> This is a six part series on The Electronic Vehicle we see in our shops everyday. This series of classes covers everything from theory to testing of: All the vehicles electronically control systems. (Engine control, Anti-Lock brakes, Suspension, Transmission, etc.)	<b>8</b>	<b>5/2/2012 - 5/3/2012</b>
<b>Instructor:</b>	<b>Louie Nelson</b>		
<b>DSL-500</b>	<b>DSL-500 Ford 6.0 &amp; 6.4 Power Stroke Diagnosis</b> The Ford 6.0 and 6.4 light duty diesel systems provide technicians with many challenges. There are several common production issues with both of these engine systems along with a multitude of drivability related concerns. This course will cover common mechanical failures, repair tips, engine controls, turbo charger testing using a variety of methods and tools, fuel system testing; and emission controls and system testing. You will be given the knowledge necessary to take the mystery out of diagnosing and repairing these vehicles.	<b>8</b>	<b>7/18/2012 - 7/19/2012</b>
<b>Instructor:</b>	<b>Louie Nelson</b>		

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