



Department of the Environment  
Vehicle Emissions Inspection Program

# Training Class Information

## Course Descriptions for June 2012 Training

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The **FREE** 8-hour training class “*Advanced Diagnostics Strategies and Procedures Workshop*” will be taught by Joe Thomas, Will Carroll and Will Speigle of Utah’s Weber State University on June 29th and 30th. The times and location for the dates are as follows:

Friday, June 29 at the **Lincoln Technical Institute, Columbia MD**

8:30 AM— 5:00 PM

**Or**

Saturday, June 30 at the **Lincoln Technical Institute, Columbia MD**

8:30 AM— 5:00 PM

This 8 hour workshop reviews multiple diagnostic strategies and repair procedures for successful diagnosis of difficult electrical and drivability concerns. Advanced diagnostic skills are crucial in the diagnosis of today’s advance technology vehicles. Duplicating intermittent symptoms or associated fault code during diagnostic evaluations can be challenging and frustrating. Associated faults codes are frequently present even if the symptoms are intermittent in nature. This workshop will also discuss in detail various diagnostic strategies used by vehicle manufacturers. Demonstrations and on-vehicle exercises are used to reinforce classroom discussions and are designed to increase diagnostic and repair effectiveness.

- Electrical wiring diagrams (schematics) utilization for system and component operation determination
- Digital Multimeter (DMM) and Digital Storage Oscilloscope (DSO) usage for dynamic circuit measurements
- Use of DMM and DSO to capture intermittent faults
- Voltage signal pattern discussions and demonstrations
- Comparison between scan tool data and live circuit measurements
- Switched On/Off Controls
- PWM Controls
- Strategies to prevent inadvertent creation of an intermittent condition
- Repair of wiring to meet OE standards
- Connector intermittent connection repair
- Duplication of intermittent concerns

Please contact Margie Wise with MDE to register for this course. She may be reached at (410) 537-3197 or by e-mail [mwise@mde.state.md.us](mailto:mwise@mde.state.md.us). **Both of the training sessions will cover the same material.** For directions to the Lincoln Technical Institute, 9325 Snowden River Parkway, Columbia, Md 21046 or call (410) 290-7100 or please visit the following website . [Directions](#)

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