



Vehicle Emissions Inspection Program

Course Descriptions for April 2010 Training

These training sessions will be taught by instructors from Utah's Weber State University, Center for Automotive Science and Technology on April 23rd and April 24th.

OBD II Oxygen Sensor (O2S) Monitor: Operation and Diagnosis/Repair Verification:

This workshop identifies the different types of Exhaust Oxygen Sensors (EO2S or O2S) currently in use including the Critical Current and Ion Pump Air/Fuel Ratio Sensors as well as the typical Stoichiometric O2S. OBD regulations and vehicle OEM monitoring strategies for each type of O2S are detailed along with diagnostic and repair verification procedures.

The O2S Monitor workshop covers the following:

- O2S Monitoring Requirements (Factors determining system advancements)
- O2S Systems, Monitoring Strategies and Operation
- O2S DTCs and Operation
- Scan Tool Retrieval of O2S Information
- Using Service Modes \$01, \$02, \$03 & \$07, \$05 & \$06 (where available), and \$09 (In-Use Performance)
- O2S Diagnosis and Repair Verification

OBD II Three-Way Catalyst (TWC) Monitor: Operation and Diagnosis/Repair Verification:

This workshop details the various TWC monitoring requirements and strategies used by vehicle OEMs to determine TWC efficiency. Generic and manufacturer specific TWC DTCs along with diagnostic and repair verification procedures are identified for the Steady Cruise, Idle and Enleanment/Enrichment Oxygen Storage Capacity monitoring methods.

The TWC Monitor workshop covers the following:

- TWC Monitoring Requirements (Factors determining system advancements)
- TWC Monitoring Strategies and Operation
- TWC DTCs and Operation
- Scan Tool Retrieval of TWC Information using Service Modes \$01, \$02, \$03 & \$07, \$06 (where available), and \$09 (In-Use Performance)
- TWC Diagnosis and Repair Verification

To Register:

Both courses will held on **Friday, April 23** and **Saturday, April 24**. The Oxygen Sensor course from 8am - 12pm, and the Three- Way Catalyst course from 1pm - 5pm.

Please contact Margie Wise with MDE to register for one or both of the courses. She may be reached at (410) 537- 3197. For directions to the Maryland Department of the Environment's Baltimore headquarters, call or please visit the following website. www.mde.state.md.us/AboutMDE/Directions/index.asp