



Department of the Environment
Vehicle Emissions Inspection Program

Training Class Information

CSU June 2011 OBD-II and Drivability Diagnosis Using Fuel Trim

The **FREE** training class “**OBD II and Drivability Diagnosis Using Fuel Trim**” will be taught by Jim Kemper and Randy Bernklau of Colorado State University on Saturday June 25th and Monday June 27th. The times for the dates are as follows:

Saturday, June 25 8 AM -12 Noon **or** 1 PM – 5 PM
Monday, June 27 1 PM – 5 PM **or** 6 PM – 10PM

This course will build upon previous MDE training courses on emissions. As part of the class the following topic areas will be discussed:

- Review the most common OBD II codes for the Maryland Vehicle Emissions Inspection Program
- Present fuel trim related diagnostic tips and strategies for selected common emission failure codes
- Discuss fuel trim related diagnostic strategies related to proper catalytic converter feedgas control and how this affects catalyst operation, and setting of OBD II codes
- Review fuel control strategies, 5-gas combustion chemistry, and describe the two most common air/fuel ratio calculation techniques
- Diagnose volumetric efficiency problems and concerns using fuel trim
- Examine “real world” case studies using fuel trim to solve challenging diagnostic problems

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. **All of the training sessions will cover the same material.** This training will be held at MDE headquarters in Baltimore. For directions to MDE please call (410) 537-3000 or please visit the following website.

www.mde.state.md.us/aboutmde/DirectionstoMDE/Pages/AboutMDE/Directions/index.aspx