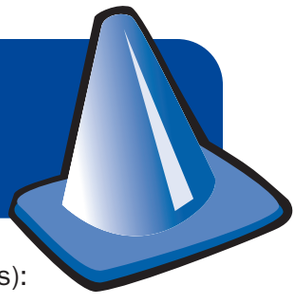

Session 606 – August 28-30
Session 607 – November 6-8

TEC304 Domestic Drivability

Workshop Length: 2 1/2 days (20 hours), 2 CEU's Awarded –$549 (with hotel room), $400 (without hotel)

Designed specifically to keep technicians current on changing vehicle management systems for domestic vehicles. Engine controls and components are reviewed as they relate to OBD I & II. Become proficient with scanning tools, oscilloscopes, multi-meters and understanding the benefits of dynamometers. Diagnose real world problems and perform accurate and necessary system repairs. Prerequisite: Attended TEC301 or ASE Certified in Electrical/Electronics (A6) or Engine Performance (A8). After completing this workshop, the student will be able to:

- Analyze and interpret modern vehicle fuel systems and the controls within.
- Examine OBD I & II and comparatively analyze diagnostic strategies of each.
- Comprehend sensor and system changes in vehicle evolution.
- Recognize changes in vehicular ignition systems and identify unique diagnostic procedures.
- Demonstrate test and repair techniques that increase shop productivity.
- Diagnose real world problem vehicles using scan tools, oscilloscopes, multi-meters and dynamometers.
- Utilize Motorist Assistance Program (MAP) guidelines to explain the need for repairs or service to the vehicle owner.

Dates (contact trainer for times):

Session 602 – March 13-15
Session 603 – May 3-5
Session 604 – July 19-21
Session 605 – August 7-9
Session 606 – September 20-22
Session 608 – November 8-10
Session 610 – December 18-20

TEC306 Fuel and Ignition Systems Diagnostics

Workshop Length: 2 1/2 days (20 hours), 2 CEU's Awarded –$549 (with hotel room), $400 (without hotel)

This workshop is designed for technicians servicing drivability, emission and tune-up repair on today's vehicles. Practical instruction focuses on the fuel delivery and ignition systems that are essential knowledge for technicians. Major fuel and ignition systems will be reviewed; diagnostic procedures include advanced oscilloscope diagnosis. Multiple vehicle systems will be serviced to demonstrate fast and accurate methods to solve problems and avoid future comebacks. The TEC301 is an excellent preface to the TEC306. After completing this workshop, the student will be able to:

- Understand ignition wire types and their effect on ignition and fuel performance.
- Perform accurate diagnosis on multiple types of fuel systems with an emphasis on Fuel Injectors, Vapor return and Evaporative emissions systems.
- Accurately replace or repair fuel system components and emphasize areas where initial replacement can avoid future returns or comebacks.

continued on page 10

continued from page 9

- Practice correct safety procedures for fuel exposure and ignition systems diagnosis.
- Define vehicular fuel & ignition systems and components on all vehicles.
- Study the evolution of gasoline blends and the need for precious metal spark plugs in today's sophisticated systems.
- Determine the effects of gasoline blends and additives and their effect on spark plug performance.
- Observe and decipher Secondary Ignition Oscilloscope patterns among different ignition system types.

Dates (contact trainer for times):
Session 601 – March 22-24
Session 603 – May 1-3
Session 605 – September 18-20
Session 607 – November 13-15

TEC307 Advanced Drivability

Workshop Length: 2 days (16 hours), 1.6 CEU's Awarded – $439 (with hotel room), $340 (without hotel)

This workshop will concentrate on advanced drivability problems encountered on late model vehicles. Students will learn the function and purpose of engine management systems. Advanced test equipment is used to show the best procedures to test and repair. Diagnose real world problems and perform accurate system repairs by incorporating dynamometer and five gas analysis. Prerequisite: Attended TEC304 or TEC306. After completing this workshop, the student will be able to:

- Analyze codes and flags through scan tool interpretation.
- Examine On Board Diagnostics strategies and comparatively analyze functionality on multiple platforms.
- Comprehend advanced oscilloscope diagnostics.
- Recognize changes in vehicular ignition systems and identify unique diagnostic procedures.
- Demonstrate diagnostic techniques through 5-gas analysis and dynamometer testing.

Dates (contact trainer for times):
Session 601 – March 15-17
Session 603 – August 9-11
Session 604 – November 15-17
Session 607 – December 20-22

St. Louis Community College at Forest Park

The trainers are Angelo Vitullo and Bob Weil. Contact Angelo at (314) 951-9420 for additional details. To register by phone or for payment by credit card, call Andrea at (314) 539-5341 or (314) 644-9287. All courses are held at St. Louis Community College at Forest Park at 5600 Oakland Ave., St. Louis, MO.

Automotive Service Excellence (ASE) Test Prep L1 Crash Course:

4-hour course/one night. All nights 6-10 p.m. This course is not approved for MRRT continuing education. Cost = $75.00.

Dates: May 1

Automotive Oscilloscopes and Emissions Diagnostics:

9-hour course/three nights. All nights 6-9 p.m.This course is approved for MRRT continuing education. Cost = $100.00.

Dates:
February 21, 23 and 28
March 28, 30 and April 4
May 18, 23 and 25
June 19, 21 and 26
July 19, 24 and 26

Carbureted Vehicle I/M Failures and Current Topics Dealing with GCAP Program:

4-hour course/one night. All nights 6-10 p.m. This course is approved for MRRT continuing education. Cost = $50.00.

Dates:	
February 6	April 6
March 6	May 22
March 21	June 15
	July 13

Evaporative Emissions System Course:

6-hour course/two nights: 6-hour course/two nights. All nights 6-9 p.m. This course is approved for MRRT continuing education. Cost = $75.00.

Dates:	
February 7 and 9	April 24 and 26
February 27 and 28	June 20 and 22
March 7 and 9	July 25 and 27

Internet Resources, Electronic Information Systems, Computer Reprogramming:

4-hour course/one night. All nights 6-10 p.m. This course is approved for MRRT continuing education. Investigate three areas of interest: Electronic Information Systems, usage of popular PC software and the Internet to facilitate organization and communication of technical information and Reprogramming of Vehicle Computers. Cost = $50.00.

Dates:	
February 8	May 17
March 23	June 14
April 10	July 18

MRRT/GCAP Course:

4-hour course/one night. All nights 6-10 p.m. This course is not approved for MRRT continuing education. Cost = $50.00.

Dates:	
February 1	April 19
February 15	May 3
March 1	May 24
March 22	June 7
April 5	June 28
	July 12

OBDII and 5 Gas Exhaust Analysis:

4-hour course/one night. All nights 6-10 p.m. This course is approved for MRRT continuing education. Cost = $50.00.

Dates:	
February 2	April 17
February 16	May 10
March 2	May 30
March 29	June 12
April 3	June 29

Area Trainers!

Are you currently offering automotive repair training in the St. Louis area? If so, please contact the Gateway Clean Air Program to be included in future issues of the Gateway Air Repair. Please include a detailed description of your course, including topics covered, dates, costs and location. Notices may be sent to Robert Arrol at rob.arrol@esph.com or faxed to (314) 739-2901. If the training is emissions-related and you would like it evaluated as a continuing education course offered to all Missouri Recognized Repair Technicians, please contact the Missouri Department of Natural Resources at (314) 416-2115.

Technical Service Providers Needed

The Department of Natural Resources' Air Pollution Control Program (APCP) is seeking repair shops which employ Missouri Recognized Repair Technicians to provide investigative and/or diagnostic services to motorists on behalf of the APCP. The potential work runs the gamut from verifying the repairs made to a vehicle (either by an individual or another repair facility) to performing a complete diagnosis regarding the cause of a continued emissions test failure. If you feel your shop has the interest, the diagnostic equipment and the technical capabilities to accurately diagnose IM240 and/or OBDII emissions test failures, assist citizens in acquiring effective repairs, and to be compensated by the state for your time and effort, please call Barbara Lee at 314-416-2115 and request a Technical Service Providers contract be sent to you. The APCP cannot guarantee the amount of work you'll receive if you are contracted to be a Technical Service Provider. Vehicle repair work will only be performed by the Technical Service Providers if the motorist pays for the repair. Motorists will be referred to shops within their geographic area, and we are looking for shops throughout the emissions test area. The APCP would like to invite all shops to consider participating.

Gateway Air Repair
PO Box 1034
St. Charles, MO 63302-1034

PLEASE POST. Please pass on to any Missouri Recognized/Qualified Repair Technicians working at this address.

Count Me In!

I'd like more information about the Gateway Clean Air Program!

Please Print

Name _____ Technician ID Number _____

Company Name _____ Facility ID Number _____

Address _____

City, State, Zip _____

Phone _____ E-mail Address _____

___ I'd like to receive the *Gateway Air Repair* electronically.

___ I'd like to receive future issues at home.

☐ Please change or correct my address.

I am interested in:

_____ Open house tour

_____ Training opportunities

_____ More information on becoming a Missouri Recognized Repair Technician or a Missouri Qualified Repair Technician

_____ Send me OBD brochures

_____ Send me a poster

MAIL TO:
Gateway Air Repair
PO Box 1034
St. Charles, MO 63302-1034