

# **SMITH AUTO PARTS & MIKE CLEARY PRESENT:**

## **AUTO & TRUCK ELECTRICAL & ELECTRONICS DIAGNOSTICS: WHAT YOU DIDN'T LEARN IN SCHOOL**

### **LEARN FROM A HANDS-ON AUTO & TRUCK TECHNICIAN!**

Mike Cleary, the instructor, is an eight time award winning Ford Motor Company Certified Senior Master Technician, as well as a Powerstroke Diesel Engine, and Hybrid/Electrical Vehicle Specialist. He was a founding board member of Ford Motor Company's Professional Technician Society, an organization dedicated to serving the needs of Ford dealership technicians in the United States and Canada. He has served on two separate Ford National Technician Advisory Boards, and received national recognition from Ford Motor Company for his contributions to Ford as a field technician involved in improving the 6.0L Powerstroke Diesel Engine Program. As a former member of Ford's IDS (Integrated Diagnostics Software) beta team, he provided field feedback to Ford regarding how IDS performed on Ford's newest vehicles. Long recognized for his diesel performance expertise, less well known is that he served as a sort of "Last Chance Garage" for many frustrated customers and technicians while serving as shop foreman and chief driveability and electronics technician at a California Ford dealership. Faced with the prospect of having to repair the vehicle and at the same time salvage the dealer/customer relationship, he developed his own unique diagnostic strategies for quickly and efficiently diagnosing the most difficult problems on a wide variety of vehicle systems: diesel engine performance, gasoline engine performance, and body and chassis electronics.

He is an ASE Certified Master Technician in both the Automobile and Heavy Truck categories, as well as being L1, L2, and F1 Certified. He is also certified by the state of California as an Advanced Emission Specialist Technician, and has a Bachelor of Science Degree in Industrial Technology from California State University, Fresno. He has been a member of the Society of Automotive Engineers since 1981. He currently owns his own shop, Cleary Automotive, specializing in high tech driveability and electronics repairs on Ford Powerstroke Diesel engine systems, carrying on his "Last Chance Garage" tradition. An internationally recognized trainer, he presents high tech driveability and electronics training for technicians worldwide for his training company, Automotive Technical Support Services, in addition to writing automotive diagnostics articles for industry trade magazines. He has a lifetime of continuous experience as a hands-on automobile technician in independent shops and dealerships.

### **CLASS INFO: ELECTRICAL DIAGNOSIS: WHAT YOU DIDN'T LEARN IN SCHOOL**

NOTE: THIS CLASS APPLIES TO ALL MANUFACTURER'S VEHICLES: GASOLINE, DIESEL, HYBRID AND/OR ELECTRIC

Tired of going to electrical classes that begin with atomic theory and movement of electrons? Sure, it explains how current flows, but does it really help you fix the vehicle? We will not be covering that in this class. This class is all about helping you become proficient at electrical diagnostics. Become an expert electrical tech! Whether you are an apprentice technician looking to become more proficient in electrical diagnostics, or a seasoned veteran who would just like a refresher and also learn new information, this is the course for you. You will learn the skills necessary to become more efficient and profitable when performing electrical diagnostics work. You will learn these skills from a hands-on working automobile technician.

#### **TOPICS COVERED:**

- What really goes on inside your multi-meter and how it applies to diagnosis
- Breaking down wiring diagrams into their simplest components, thereby facilitating diagnosis
- Why fuses don't blow
- Why Kirchhoff's Laws apply more to diagnosis than Ohm's Law
- What the "real world" voltage drop specs are
- Piezo actuator theory and operation
- Electrical circuits and their components
- Common diagnostic mistakes and how to avoid them
- What a negative resistance value really means
- How Hall Effect sensors really work, and how to properly diagnose them
- Analysis of real world diagnostic dilemmas (case studies)

**REGISTER EARLY TO SAVE MONEY. CLASS SIZE LIMITED AND WILL FILL QUICKLY!**

**MORE INFO ON NEXT PAGE**

**Thanks to a generous sponsorship offer from Smith Auto Parts, I am able to offer this class for a one time price of \$109.00 USD (normally \$149.00 USD) if you register by Aug. 31, 2019.**

EVENT DETAILS:

QUESTIONS & REGISTRATION: ATSS---Mike Cleary  
PO Box 27522; Fresno, CA; USA; 93729  
Phone: (559) 307-7349  
Fax: (559) 434-2289  
E-mail: [mclearyatss@yahoo.com](mailto:mclearyatss@yahoo.com)

DATE: Wednesday, September 18, 2019

TIME: 6 PM – 10 PM

PRICE: \$109.00 USD by August 31, 2019; \$149.00 USD after

LOCATION: Smith Auto Parts Training Room; 2545 N. Blackstone Avenue; Fresno, CA; 93703

**ATTENTION: SMITH AUTO PARTS CUSTOMERS**

RECEIVE \$10.00 OFF ABOVE PRICE IF YOU REGISTER AND PAY BY AUG. 31, 2019

PLEASE FILL IN SMITH AUTO PARTS CUSTOMER ACCOUNT NUMBER: \_\_\_\_\_

**REGISTRATION FORM - REGISTRATION CONFIRMATIONS WILL BE SENT VIA E-MAIL**

TECHNICIAN'S NAME: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP \_\_\_\_\_

WORK PHONE: \_\_\_\_\_ WORK FAX: \_\_\_\_\_

EMPLOYER NAME: \_\_\_\_\_

EMPLOYER ADDRESS: \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_ E-MAIL \_\_\_\_\_

FAX (559-434-2289), TEXT (559-307-7349), or MAIL REGISTRATION FORM and FEE to ATSS. MAKE CHECKS PAYABLE TO "ATSS." ONLY CHECKS DRAWN FROM A U.S. BANK ACCEPTED DUE TO INTERNATIONAL BANKING FEES. PAYMENT MUST BE RECEIVED BY AUGUST 31, 2019, IN ORDER TO RECEIVE ANY DISCOUNTS. NO REFUNDS OR CREDITS ONCE ENROLLED. EVENT MAY BE CANCELED IF A MINIMUM ENROLLMENT NUMBER ISN'T ACHIEVED..

CREDIT CARD INFO: (**VISA OR MASTERCARD ONLY** IF PAYING BY CREDIT CARD)

CARD NUMBER: \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

3 DIGIT SECURITY CODE (FROM BACK OF CARD): \_\_\_\_\_ BILLING ZIP CODE: \_\_\_\_\_

FEE PAID BY (CIRCLE):    EMPLOYER            TECHNICIAN

HOW DID YOU LEARN ABOUT THIS EVENT? \_\_\_\_\_