



2019 WMDA/CAR TRAINING SCHEDULE

**Presented By EAST Training
Enhanced Automotive Systems Technology, Inc.**

Wednesday & Thursday – October 9 & 10, 2019

131 Electronics in the Modern Automobile

Hillmuth Automotive Columbia, 6810 Oak Hall Lane, Columbia, MD

Application of electronic components in the automobile. Semiconductors, barrier voltage, diodes, for rectification, circuit protection, current control, zener diodes for voltage regulation. LED's, transistors NPN, PNP, Darlington pairs, SCR's (Silicon Controlled Rectifiers), open collector transistors – construction function and testing. Resistors and condensers in automotive circuits. Several types of automotive electronic circuits will be evaluated and explained. Schematics will be presented describing construction of several useful shop diagnostic tools, which can be assembled using knowledge learned in this course. Students are asked to bring their DVOM/DMM.

Wednesday & Thursday – October 23 & 24, 2019

131B Electronics in the Modern Automobile Update

Hillmuth Automotive Columbia, 6810 Oak Hall Lane, Columbia, MD

This course builds on Electronics Module 1. We will cover additional electronic components and systems used in the automobiles of today and tomorrow. We will delve deeper into the use of semiconductors – transistors, photoelectric devices – photocells and photoresistive components. We will be constructing more complex circuits on our electronic trainer boards. We will cover transistor gain and build circuits to demonstrate and measure gain. Case studies will be included which will demonstrate how your new found knowledge of transistor operation will allow you to diagnose and actually repair failed components. We will explain and demonstrate the use of Logic probes and Logic pulsers. This is a hands-on class. Students are asked to bring their DVOM/DMM.

PLEASE NOTE: Wednesday/Thursday classes meet 4 hours each day from 6:00 p.m. to 10:00 p.m. Food will be served at 5:30 p.m. The Saturday WMDA/CAR Training Day class meets for 6 hours from 9:00 a.m. to Noon and from 1:00 p.m. to 4:00 p.m. Lunch is served at Noon.

FOR MORE INFORMATION: Visit www.wmda.net or email Debra Webster at dwebster@wmda.net or call 301-390-0900, ext. 101.