



Understanding & Diagnosing Hybrid / EV Vehicles

Understanding

Advantages of Hybrid / EV vehicles - Different types of Hybrids/ EV - Major hybrid subsystems shared by all Hybrid/ EV vehicles - Electric assist and regeneration, AutoStop, Honda valve pause engine shutdown, Toyota synergy power split system, Ford systems and more - Batteries, battery management, Inverters, DC to DC conversion, DC to 3 phase AC inverter, 3 phase synchronous drive motors, drive by-wire, brake by wire, electric power steering, electric A/C. - Proper safety techniques for working on HV/High Power electronics. - CAN and other serial networks in Hybrids/ EV, and much more. We dig into the hardware - hands on, and explore all aspects of the Hybrid / EV drive.

Our hands on Hybrid / EV class focuses on providing you a working knowledge of current and future Hybrid / EV technology, along with the proper techniques necessary to safely diagnose, repair and service Hybrid / EV Vehicles.

Diagnosing

Overview of sub systems, what sensors the BCM, MCM, Power inverter look at and how that information is used to control all aspects of the Hybrid /EV drive - Scan tool usage to determine best tool for the money Enhanced and OEM. - CAT III test equipment, Labscope, DVOM, hi and low current probes, and Megohmmeter, Milli ohmmeter how to use them to speed your diagnosis. - The value of current ramping and reference waveforms for quick localization of problems. - Getting the information, you need for proper troubleshooting of Hybrid / EV systems.

Our instructors will guide you through this 3 day, 30 plus hour no nonsense class. Each instructor has unique qualifications that make this class a one-of-a-kind learning experience. All our instructors have been involved with hands on hybrid / EV training and curriculum development.

**Instructor:
"G" Jerry Truglia**



Dates & Times: Friday July 15th, 2022 7:30 AM to 8:30 PM
Saturday July 16th, 2022 7:30 AM to 8:30 PM
Sunday July 17th, 2022 7:30 AM to 4 PM

What's Included: Class, meals, training materials, 1000 - volt High voltage gloves, covers, safety glasses, DVD and more.

Price: \$2750.00* (per technician no hotel) with 3 day hotel stay \$3440.00

Technicians /All Attendees Pre Register 2 Weeks Prior

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Our instructors take the fear and mystery out of working on Hybrid/ EV vehicles.