

# MERCEDES-BENZ ELECTRONICS & BUS SYSTEMS

Learn to fast track the diagnosis of bus system faults. Understand system communication and data transfer on Mercedes-Benz vehicles. Take your bus and electrical diagnostic skills to the next level using the most efficient troubleshooting techniques.

- FlexRay™ - In-depth theory of operation, diagnosis and troubleshooting of this powertrain and chassis bus. This error-tolerant serial bus system is 10 times faster than CAN and requires a unique approach to diagnosis, troubleshooting and repair.
- CAN & Networking, Ethernet, Data Frames, D2B, MOST, LIN, FlexRay™ Ethernet - breaking down the frames.
- Dual battery systems: function and overview of various dual battery systems, auxiliary system, direct select and eco stop/start battery, charging and jump starting procedures.
- Complete review of Mercedes-Benz wiring diagrams, including symbol identification, color codes and approved wire repair procedures.
- Know the correct way to repair SRS wiring and connectors - how to properly solder and verify SRS repairs to factory specifications.
- Discussions of Semiconductor, Proton and Electron principals and how they create electrical circuits. Diagnosis utilizing Ohm's Law.
- Parallel, series circuit calculation and voltage drop calculation methods.
- Digital Multimeter measurements and the importance of understanding and verifying the units involved in any measurement or specification.

## 1 DAY CLASS

DATE:  
Saturday,

June 3rd, 2023

TIME:  
8am - 5pm

CLASS ID: SEM1778

INSTRUCTOR:  
Ian Lebbey

LOCATION:  
Holiday Inn Express  
20260 Goldenrod Lane.  
Germantown, MD 20876  
301-428-1300

COST:  
\$325 per student  
(meals included)

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