

# BMW & MINI BUS SYSTEMS

The exponential increase in distributed functions and bus communications, since the 2002 BMW E65 7 series, makes it imperative that service technicians fully understand bus system components, operation, protocols, and topography. It is only with a solid comprehension that an effective diagnostic strategy can be formulated.

- Learn to identify the different Bus System Architectures used on BMW and Mini vehicles:
  - Single wire (K protocol, LIN and BSD)
  - Two wire (High and Low speed CAN protocol, Flexray)
  - Optical (MOST and Byteflight)
  - Ethernet protocol
- Scan Tool no communication - where do you start?
- A systematic diagnostic approach/routine for each of the systems.
- Differentiating the symptoms between module failure and harness defects
- Bus system waveform analysis and diagnostic procedures demonstrated
- Essential diagnostic tools



**1 DAY CLASS**

DATE:

Saturday,  
August 10th, 2019

TIME:

8 am - 5 pm

LOCATION:

Hilton Garden Inn  
765 Airport Boulevard  
Burlingame, CA 94010  
(650) 347-7800

CLASS ID: SEM1650

INSTRUCTOR: Eric Scharping

COST: \$325 per student  
(meals included)

Register at [www.worldpac.com](http://www.worldpac.com) under Technical Training Seminar or call your WORLD PAC associate at 1-800-888-9982 x5470

