



# BMW DIESEL Technology

## 1 DAY CLASS

### TOPICS COVERED

- BMW Diesel Vehicles from 2009 to present
- The mechanical designs of both generations, M57 and N57, of the inline six cylinder BMW diesel engines
- Mechanical design changes for the four cylinder N47 engine
- Common Rail Fuel System: Components, Operation, and Diagnostics. Low and high pressure delivery, fuel heating, piezo injectors and system bleeding
- Glow plug system common failures and repair
- Operation and diagnosis of air management and EGR
- Diagnosis and repair of carbon build up in intake system
- Operation of air charge control and characteristic differences between twin turbo and variable geometry turbo systems
- Diesel Particulate Filter (DPF) evaluation. Diagnosis, repair, preventative maintenance and pre failure detection
- Diesel Exhaust Fluid (DEF) what is it, and why do we need it?
- First and second generations of Selective Catalytic Reduction (SCR) operational principles, servicing and troubleshooting

**DATE:**

*Saturday,  
March 24th, 2018*

**TIME:**

*8 am - 5 pm*

**LOCATION:**

*Doubletree by Hilton  
515 Fellowship Road  
Mt. Laurel, NJ 08054  
(856) 380 - 6050*

**CLASS ID:** SEM1472

**COST:**

*\$325 per student  
(meals included)*

**INSTRUCTOR:**

*Eric Scharping*

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