



BMW Engine 4

BMW Engine 4 - A 2-day training course covering all BMW gasoline engines from 2007 to 2017*. Detailed functional descriptions and real world approaches to diagnosis and repair will be presented for:

- Valvetronic - Evolution and implementation into the turbo direct injection motor
- Turbocharging Technology - Diagnosis and repair of boost related problems on both conventional and twin scroll designs
- Fuel Delivery Systems - Pattern failures of the low and high pressure circuits, with an emphasis on a diagnostic routine using fuel trim adaptations.
- Misfire Analysis - How to determine if the misfire is a failure in the ignition system, fuel delivery, or air management system
- Variable Camshaft Timing "VANOS" - Operation and system changes over the last decade. Diagnostic and repair solutions for various failure scenarios.
- Evaporative Emissions Systems - Operation, components, and diagnosis including DMTL and NVLD
- Practical diagnosis and repair techniques for common mechanical failures including timing chains, leaks, oil consumption, and more.
- BMW Cooling Systems - An in depth understanding of the various aspects of the modern cooling system technology. Including electric pumps, map cooling, variable circuits and indirect charge air cooling
- Service and maintenance recommendations and best practices

*N20, N26, N54, N55, N63, N63TU, N63TU2, N74, B48, B58

2 DAY CLASS

DATE:

Saturday, February 8th, 2020 8 am - 5 pm
Sunday, February 9th, 2020

TIME:

LOCATION:

Courtyard Chicago Wood Dale
900 N. Wood Dale Rd.
Wood Dale, IL. 60191
(630) 766- 7775

CLASS ID: SEM1729

COST: \$550 per student
(meals included)

INSTRUCTOR:

Luke Murray

Register at www.worldpac.com under Technical Training Seminar or call your WORLD PAC associate at 1-800-888-9982 x5470

