



Misfire & Engine Mechanical Diagnostics: *Scope Driven Techniques for Fast Fault Isolation*



Instructor:
Eric Ziegler

Integrating scan data, scope patterns, current probes, vacuum transducers, and pressure transducers into the diagnostic process, technicians gain a clear view of ignition events, fuel contribution, mechanical sealing, and timing behavior without unnecessary teardown.

- *Structured Diagnostic Process - Ignition, Fuel and Mechanical Misfire Analysis*
- *Scan Data Strategies - Direct Testing and Narrow Fault Categories*
- *Scope Based Evaluation - Ignition Patterns and Fuel Delivery*
- *Mechanical Engine Analysis - Current, Vacuum and Pressure Transducers*
- *Electronic Verification of Camshaft Timing, Valve Sealing and Airflow Issues*
- *Non-Intrusive Testing Methods - Diagnose First...Then Teardown*
- *Pattern Interpretation for Combustion, Timing and Mechanical Sealing Concerns*
- *Vehicle Case Studies - Effective Test Selection and Result Interpretation*

**Saturday
2/14/26**

8am to 5pm

Code: **SEM1984**
Cost: **\$385 USD**
Per Student



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