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ATG AUTOMOTIVE TRAINING GROUP

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HYBRID SYSTEMS DIAGNOSTICS

Vehicle coverage includes examples from Honda, Toyota, Ford, BMW, Hyundai/KIA, General Motors, and more. There are now over 100 hybrid models on our roads, but our captures and case studies cover the limited number of configurations used. After this seminar, you'll be able to recognize the systems and components even when working on one of the dozens of low-production hybrids. Using these skills, you can approach a common hybrid or a model you've never seen and easily identify components, functions, and interactions. Better still, you'll be able to select the appropriate test from our manual to avoid guessing when available repair information is confusing (or nonexistent). Specific topics include:

- *An Intuitive understanding of power sharing*
- *Drive motor types & feedback, including BAS, planetary, 2-mode, flywheel, clutched EV, etc.*
- *Battery stress-testing w/ failure examples*
- *High voltage battery faults vs. voltage drop*
- *ICE faults and test variations vs. non-hybrid*
- *Understanding the braking/regeneration mix*
- *Testing air, coolant and refrigerant cooling for batteries, motors, engines & electronics*
- *Lots of auxiliary tests for fans, pumps, HVAC, plug-in charging, brakes, instrumentation, etc.*
- *Cool circuit tests not listed in OEM information*

For each discussion, we focus on the high level thought process to help you rule out entire categories of faults. Finding out what's not wrong prevents wasted tests and the distractions that lead to misdiagnosis. Bringing this ideology to hybrid diagnostics makes sense because the complexity of the drivetrain and auxiliary systems means that mistakes cost a lot of time and money. After this seminar you'll have confidence when the next hybrid rolls in, no matter who made it!

Seminar Information

Date: Monday, June 17, 2019 &
Tuesday, June 18, 2019

Time: 6:30 p.m. to 10:00 p.m. Each Evening

Instructor: JEFF CANIDA

Location: Bellingham Technical College
Campus Center, Room #114 (CC114)
3028 Lindbergh Ave.
Bellingham, WA 98225
(360) 752-8403

Contact: **Your ATG Sales Rep:**
Nikki Gallo
at (800) 233-3182 Ext.*235*

Cost: **$209.00 – Early Bird Special**
$249.00 - After June 3, 2019

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Attach sheet of additional names if necessary. Invoice and Confirmation will be mailed to the address above.