



Vibration Diagnostics - Finding the Source, Not the Symptom



Instructor:

Gary Machiros

Vehicles are using lighter materials and advanced suspension systems, making vibration concerns more noticeable and complex to diagnose. When tire balance or part replacement does not solve the issue, a structured approach is required. The relationship between component speed, vibration frequency, and amplitude, and learn how to interpret data from diagnostic tools to pinpoint the true source of vibration.

- Frequency, Amplitude and Vibration Order Fundamentals
- Tire and Wheel Patterns - Road Force Insight
- Driveline and Axle Contributors, Angles and Phasing
- Engine-Related Sources - Mounts and Accessory Influence
- Transfer Paths to the Cabin - Receivers and Isolators
- Runout Testing and Tire Stiffness Variation
- Modern Diagnostic Tools - Sensors and Analyzers
- Road Test Strategy - Data Capture and Verification

How vibrations originate, transfer, and are sensed throughout the vehicle - real case studies to demonstrate diagnostic strategy and test accuracy.

Mon 05/04/26
Tue 05/05/26

6pm to 8pm
Eastern time zone

Code: **OLT513**
Cost: **\$150 USD**
Per Student



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