



## **INJ-306 GMC Truck 14-19 ECOTEC 3 Engines & Transmissions**

In this class we will cover the next generation of GM V engines the EcoTec, new engine family includes a 4.3L V6, a 5.3L V-8 and a 6.2L V-8 PLUS 8 and 10 speed transmissions. These engines feature three technologies – direct injection, cylinder deactivation (Active Fuel Management) and continuously variable valve timing.

Covered in this class is operational aspects of the mechanical and control systems. Service of these systems can be tricky so we will cover some tips and tricks to help you in the shop. With the three systems these engine use for fuel and drivability controls some drivability issues can be a challenge so we will have some drivability diagnostics and testing procedures. Inspecting and servicing cylinder heads are a must! Transmission servicing procedures are very specific for proper drivability!

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### **COURSE OUTLINE**

1. Acronyms
2. Introduction
3. Engines- 4.3L V6, a 5.3L V-8 and a 6.2L V-8
  - Engine Changes from previous generations
  - Special repair procedure for CLY heads.
  - Direct Injection Operation (simplified)
  - AFM operation
  - VVT operation and common Problems
  - Direct injection System component replacement
4. AFM system diagnostics and replacement
5. VVT/lubrication system diagnostics
6. Transmission
  - 8L90 and 10L80 Operations & Diagnostics
  - Drivability issue case studies

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Keep this stub as a reminder

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### **LIVE IN CLASSROOM TRAINING**

**Date: October 26, 2022**

**Location: Edmonton**

**Start Time: 6pm**

**CONTACT YOUR APD SALEPERSON FOR MORE INFORMATION**