ETEP Curriculum Outline  
(Effective January 2015)

Sections 1 through 4 – Electrical/Electronics & Engine Diagnosis/Repair  
(24 Hours)
Module A: Basic Electronics  
Module B: Compression  
Module C: Ignition Theory and Testing  
Module D: Air/Fuel Theory  
Module E: Emissions Theory and Diagnosis  
Module F: Input Strategies and Sensor Testing  
Module G: Output Devices and Component Testing  
Module H: Computerized Fuel Management System Operation

Section 5 – OBD I and OBD II (16 Hours)
Module A: History of OBD  
Module B: Basic OBD Parameters and Strategies  
Module C: History of OBDII System  
Module D: Comparison of OBD to OBDII Systems  
Module E: Continuous Monitors  
Module F: Non-continuous Monitors  
Module G: MIL Strategy and DTCs  
Module H: Scan Tools  
Module I: OBDII Diagnostic Check

Section 6 – Diagnosing and Repairing OBD II Monitoring Failures (24 Hours)
Module A: A Common OBDII Failure – The Misfire Monitor  
Module B: Diagnosing & Repairing Fuel Control Monitoring Failures  
Module C: Diagnosing & Repairing Evaporative Monitoring Failures Using Mode 6  
Module D: Diagnosing OBDII Failures Related to EGR Failures  
Module E: Diagnosing & Repairing Oxygen Sensor Monitor Failures  
Module F: Diagnosing & Repairing Catalyst Efficiency Monitor Failures

Section 7 – Light-Duty Diesel Vehicle Technologies and Testing (16 Hours)
Module A: Diesel Engine Operation  
Module B: Diesel Emissions  
Module C: Designing for Power, Fuel Economy and Low Emissions  
Module D: Electronic Control of Diesel Engines  
Module E: Understanding and Using Scan Data  
Module F: Diesel Smoke Diagnostics  
Module G: Diesel Emission Diagnostics  
Module H: Diesel Component Diagnosis
Section 8 – Advanced Gasoline System Technologies (16 Hours)
Module A: Variable Valve Timing (VVT), Variable Cam Timing (VCT), and Variable Cam Lift Systems and Diagnosis
Module B: In-Vehicle Communication Network & Data Bus Diagnosis, Including CAN Network Diagnosis
Module C: Gasoline Direct Injection (GDI) System Testing and Diagnosis

Section 9 – Advanced Light-Duty Diesel Vehicle Technologies (8 Hours)
Module A: Enhanced Diesel Emission Controls, including SCR, DEF, DPF and DOC
Module B: Enhanced Diesel Turbo Charging, including Variable Geometry Turbos
Module C: Enhanced Common Rail System Design and Diagnosis

Section 10 – HYBRID Vehicle System Technology, Safety, and Repair (8 Hours)
Module A: Hybrid Vehicle Theory and Operation
Module B: Hybrid Vehicle Safety
Module C: Hybrid Vehicle Service
Module D: Hybrid Vehicle Testing and Diagnosis