



<b>Course Title:</b>	Gas Engine Performance
<b>Course Number:</b>	CAT 502
<b>Course Length:</b>	36 Hours
<b>Course Format:</b>	70% ILT, 30% Lab, 0% Web
<b>Student Maximum:</b>	8
<b>Student Minimum:</b>	4
<b>Course Cost(s):</b>	Pricing Policy
<b>Prerequisite(s):</b>	Students should have experience with ET, GERP, and gas engine units of measurement and tools.

**Course Description:**

This course focuses on building skills to achieve optimum engine performance through testing, adjusting, and start-up procedures for G3300, G3400, and G3500 series gaseous-fueled Caterpillar engines. This course is designed for the OEM/Dealer technician to prepare you to accurately check/validate engine performance per specs and rectify common issues that affect gas engines from running at optimum performance. As a minimum, the participant should have a working knowledge of Cat ET, GERP, Engine Performance Data Sheets, and accessing Caterpillar Electronic Information Systems (i.e. TMI, PowerNet), if applicable.

**Course Objectives:**

Upon completion of this course, participants will be able to independently perform these functions:

- Understand and adjust carburetor, and gas pressure regulator
- Adjust open and close loop operation modes
- Adjustments and their effects on wastegates and compressor bypass
- Adjust PIDS for speed and air/fuel ratio control
- Perform start-up procedures
- Use ET and GERP to set up, adjust, and evaluate engine performance to achieve optimum performance.
- Measure and compare engine performance data using appropriate tools and Caterpillar specifications

**Registration Information:**

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