

Course Title:	ADEM III
Course Number:	CAT 520
Course Length:	36 Hours
Course Format:	65% ILT, 35% Lab, 0% Web
Student Maximum:	8
Student Minimum:	4
Course Cost(s):	Pricing Policy
Prerequisite(s):	CAT 500 GAS I

Course Description:

The ADEM III course provides learners with an understanding of ADEM III control systems with an emphasis on understanding wiring schematics, relevant service literature, and their effective use in the troubleshooting process. Students also develop the skills required to properly setup and tune G3500 A and B lean burn and ultra lean burn engines to the desired emission specifications. Students use the emission analyzer as a tool during lab activities to understand the effects of cylinder temperatures, as they relate to required emission levels and the adverse effects they can have on the life of the engine.

Course Objectives:

Upon completion of this course, participants will be able to:

- Understand the operating principles of Caterpillar ADEM III gas engine controls
- Understand the electrical principles of the ADEM III control system
- Understand wiring diagrams and symbols
- Locate relevant service literature needed for the repair process
- Develop troubleshooting skills to diagnose and effectively repair ADEM III control systems
- Understand the operations of the air/fuel ratio of the engine control system
- Understand the effective use of the emission analyzer to aid in troubleshooting and achieving desired emission levels
- Understand the initial installation and startup process

Registration Information:

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