

LE002 - E3 Full Authority System and E3 Fuel Blending System

DESCRIPTION

This class will provide you the opportunity to learn more about the E3 Full Authority System and the E3 Fuel Blending System. The E3 FA/FB is a gas-engine control system that controls speed/load, air/fuel ratio using one or two TecJets, spark timing/duration, at any engine load and speed condition. During the course both hardware and software configuration/monitoring will be explained.



CLASS OBJECTIVES

Upon successful completion of this course, the student will be able to:

- Demonstrate a strong foundation on air fuel ratio control theory pertaining to the E3 System with Fuel Blending.
- Demonstrate an understanding of the E3 FA/FB system components and how they interface with each other
- Field calibration overview of the control, including system components.

CLASS OUTLINE

A. System Component Overview

- Overview of the E3 system components and configurations for Full Authority and Fuel Blending applications.

B. Concepts of Air/Fuel Ratio Control and Fuel Blending

- An in-depth study of E3 FA/FB air/fuel ratio fundamentals.

C. Speed/Load Control Overview

- Overview of the F-Series and P-Series Throttle and E3 strategy.

D. Communications, Calibration and Commissioning

- Calibration and Adjustment overview of the E3 Full Authority system and Fuel Blending system using the Toolkit Service Tool software.

The instructor reserves the right to modify the class content to best suit the class needs.