



EGCP-3 LS/MC Power Management Control

CLASS OBJECTIVES:

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

Demonstrate a strong foundation on power generation theory pertaining to the EGCP-3.

Field calibrate and adjust the EGCP-3.

Demonstrate an understanding of power management issues such as; soft loading and unloading, base loading, peak shaving, import/export control, and power transfer.

Describe the concepts of isochronous load sharing, baseload, process control, import / export control, VAR/Power Factor control and droop.

Demonstrate an understanding of methods of synchronizing, and paralleling



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This class will give you the opportunity to learn more about the basics of power management using the Woodward EGCP-3. This class will begin with an introduction to the basics of power management. During the course you will learn about the theory, installation, programming, operation and maintenance of the EGCP-3 with the help of various models, simulators. The hands-on part of the training will include time for programming, adjustments and troubleshooting techniques on the EGCP-3.

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CLASS OUTLINE:

A. Concepts of Basic Load Control Theory

A review covering basic power generation, Load Control Modes, and paralleling generators.

B. EGCP-2 Control Systems

EGCP-3 features, control modes and applications.

Input & Outputs (I/O) of the EGCP-3.

EGCP-3 Programming menus and use of the ServLink / Watch Window software.

Synchronization, Load Control, VAR/PF Control and Process Control.

Calibration and Adjustment of the EGCP-3 control.

