



Infi90 102 Course Syllabus

Operator Training, System Status Displays, Alarm Management

Synopsis:

Infi90 102 provides the Plant Operator or Shift Supervisor with a basic understanding of the Infi90 System Architecture, Point Addressing, and Exception Reporting. Additional subjects covered are Alarm Management, System Status Displays, Graphic Navigation, Trend Displays, Operator Configurable Displays (on consoles which support this function), Point Monitoring, and Fast Trending. Operator consoles covered are based on the system installed in the customer's plant.

Prerequisites:

Attendees should be familiar with the Physical Plant and have a thorough understanding of the plant operation.

Course Duration:

Two and One Half (2.5) Days (Available as two half day sessions per day, so operators can attend before or after their regular shift)

Course Outline:

1. Infi90 System Architecture
 - a. Plant Loop, InfiNet, Cnet (Data Highway) Single Ring / Multi-Ring
 - b. Module Bus or Controlway
 - c. Expander Bus (Slave Bus)
 - d. Node Types
2. Point Addressing
 - a. Ring or Loop
 - b. PCU (Process Control Unit) or Node
 - c. MADR (Module Address)
 - d. Block Address
 - e. Console Tags
3. Exception Reporting
 - a. Explain Exception Reporting and why it is used

- b. Exception Reporting Function Codes
 - c. Exception Report Types
 - d. Significant Change and Signal Quality for Analog Data Types
 - e. Alarming and Deadband
4. Alarm Management
- a. Alarm Summary Display
 - b. Alarm Indication on Process Graphics
 - c. Process Alarms
 - d. Bad Quality Alarms
 - e. System Status Alarms
5. System Status Displays
- a. System Status Display Navigation
 - b. Non-Critical Errors
 - c. Critical Errors
 - d. Module Problem Reports
 - e. When to Notify Technical Staff of a Problem
6. Graphic Navigation
- a. Console Menus
 - b. Next Page, Previous Page
 - c. Graphic Overview and Menus
 - d. Display By Name
 - e. Primary Display for a Tag
 - f. Moving, Sizing, and Sending Windows (On Consoles with this Function)
7. Trend Displays
- a. Current Values vs Historical Values
 - b. Going Back in Time
 - c. Changing the Time Period Displayed
 - d. Displaying Historical Value at a Specific Time
8. Operator Configurable Displays
- a. Building an Operator Configurable Display
 - b. Finding a Display Previously Created
 - c. Editing a Display

- d. Deleting a Display
 - e. Including a Trend on a Display
9. Point Monitoring
- a. Displaying Current Value of any Point in the System
 - b. Displaying the Details of a Block
 - c. Displaying the Details of a Console Tag
10. Fast Trending (On Consoles with this Feature)
- a. Creating a Fast Trend Display
 - b. Polling vs Exception Reporting
 - c. Number of Fast Trend Points allowed on Console