M106 – Troubleshooting the Infi90 Process Control Unit

Course Description

Course Duration
The duration is 4 days.

Course Goal
This course supplies the necessary tools and information needed to troubleshoot the Infi-90 Open Process Control Unit from the control strategy to the field wiring.

Student Profile
This course is beneficial to students who are responsible for DCS component selection, DCS installation, Process Control implementation and DCS maintenance.

Prerequisites and Recommendations
Students should have a basic knowledge of process control and operations concepts. Successful completion of either combination of the M101 or M201 and M103 or M202 courses is required unless special permission is requested and granted by the instructor. Basic knowledge and usage of applications running on a Windows NT or 2000 operating system is also recommended.

Description
This course reviews the features of the Infi90-Open® Distributed Control System, and discusses the Process Control Unit hardware components and the role of software in implementing control strategies in the Multi-Function Processor. “Hands-on” exercises provide the opportunity to operate, install, and troubleshoot the PCU.

Course Objectives
Upon completion of this course, students will be able to:

- Incorporate Infi-90 Open/Symphony hardware into process
- Interpret ABB Bailey conventional cabinet arrangement drawings
- Setup and maintain modular power systems
- Read the field input/output external connection drawings
- Utilize the Engineering Workstation to verify operating status of hardware components
- Configure and implement Multi-Function Processor (MFP) and various I/O modules along with their support equipment
- Establish MFP redundancy
- Perform on-line configuration
- Utilize software tools to troubleshoot the MFP and its I/O modules
- Establish/locate troublesome areas data highway communication

Main Topics
- Symphony® Strategic Enterprise or Infi90 Open® System Architecture
- Composer Automation Architect Programming and Documentation
- ABB/Bailey Function Code Program Application
- Symphony® Strategic Enterprise or Infi90 Open® System Diagnostics and Monitoring
# Course Calendar - M106  Troubleshooting the Infi90 Process Control Unit

<table>
<thead>
<tr>
<th>Day 1</th>
<th>Day 2</th>
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| • Introductions  
• INFI 90 Overview  
• System Drawings  
• Infi-Net Communications  
• MFP’s  
• Lab | • Review: Q/A’s  
• Power Sizing  
• On-line Cfg.  
• I/O Hardware  
• I/O Cfg.  
• Troubleshoot I/O  
• Lab | • Review: Q/A’s  
• I/O Hardware and Cfg  
• On-line Cfg.  
• Infi-Net to Computer Interfaces  
• Status/Problem Reports  
• Lab | • Review: Q/A’s  
• Troubleshooting at all Levels  
• Lab |