



Engineering and Designing FOUNDATION fieldbus™ Systems

Comprehensive, Instructor-lead Workshop for System Designers and Engineers

Intended Audience: Project Managers, Engineers, Designers, and Technicians implementing FOUNDATION fieldbus™ Technology for the first time

Course Format: Instructor-lead Workshop (Option: Workforce Competency Program)

Course Length: Two Days (Competency Assessment Requires Additional Time)

Prerequisite: FOUNDATION fieldbus™ Fundamentals - Mandatory
(Application of FOUNDATION fieldbus™ Technology is Recommended)

Materials: Sample Documents-Engineering Deliverables, incl. Best Practices Notes

Topics Include:

Designing FOUNDATION fieldbus™ Networks

Guidance on Fieldbus Physical Layer Design

- Engineering Philosophy
- Host Selection
- Selection of Fieldbus Network Components
- Fieldbus Segment Topology Design
- Fieldbus Segment Loading (Calculations)
- Segment Grounding Practices
- Fieldbus Intrinsically Safe Applications

FOUNDATION fieldbus™ Configurable Block Parameters

Detailed Parameter Configuration Options and Default Settings

- Fieldbus Block Parameter Types
- Procedures for Changing Block Parameters
- Configuration of Block Parameters

Documentation of FOUNDATION fieldbus™ Systems

Layout and Best-Practices for Fieldbus Documentation Deliverables

- System Drawings
- Location Drawings
- Risk Management Report
- Incorporating Changes that Fieldbus has on the Following Documents:
 - Process and Instrument Drawings (P&IDs)
 - Instrument Data Sheets
 - Instrument Index
- Formatting Instrument Segment Diagrams (ISDs)
- Control Narrative Strategy and Philosophy
- Development of Configuration Data Sheets
- Site Commissioning Forms

Course Description: Complete with sample deliverables and design exercises, this interactive course will provide designers and engineers with all the skills and techniques necessary to implement a successful FOUNDATION fieldbus™ project. Taught by an industry leading professional, participants will be free to ask project-specific questions regarding best practices, installation techniques, and documentation recommendations. Avoid any unforeseen pitfalls with training and know-how from the World-class leader in Fieldbus training and consulting.

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