



FOUNDATION fieldbus™ Fundamentals & Application Technology

Technology Overview of the Protocol, its Application and Comprehensive Hands-on Demonstrations

Course Length: Three Days

Materials: Learning Modules, Visual Presentations, Hardware and Software Hands-on Demonstrations

Day 1: About the Fieldbus Foundation

Overview of the Foundation, its Members and Featured Products

FOUNDATION fieldbus™ Technology Explained

Origins of Fieldbus – its Features, Benefits and Sample Applications

FOUNDATION fieldbus™ H1 Physical Layer

Components Comprising the H1 Device Network

FOUNDATION Fieldbus™ Architectures

Overview of Fieldbus H1 and HSE Architectures

Fieldbus Device Description and Capabilities Files

Selecting and Loading Fieldbus Device Description and Capabilities Files

Fieldbus Communication Protocol

Supporting Communication Models of the Fieldbus Protocol

Resource and Transducer Blocks

Overview of FOUNDATION fieldbus™ Resource and Transducer Blocks

FOUNDATION fieldbus™ Function Blocks

Device Function Blocks with Typical Groupings and Control Strategies

Virtual Communication Relationships Defined

Fieldbus VCRs: Implementation and Management

Day 2: The Fieldbus Macrocycle

Applying, Scheduling, and Executing Fieldbus Control Strategies

FOUNDATION fieldbus™ Device Types

Availability and Application of Fieldbus Devices

Fieldbus Segment Test Tools

Overview and Employment of Fieldbus Test Equipment

FOUNDATON fieldbus™ Diagnostic Data

Standard Diagnostics for Fieldbus Blocks, Devices and Networks

Designing FOUNDATION fieldbus™ Networks

Physical-Layer Fundamentals including Segment Loading Practices

Installing FOUNDATION fieldbus™ Networks

Installing Fieldbus Devices, Distribution Systems and Cable Products

Fieldbus Troubleshooting Guide

Procedures for Assessing and Solving Typical Fieldbus Faults

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Day 3: **Fieldbus Device Configuration**

Overview of Initializing and Configuring Fieldbus Devices

FOUNDATION fieldbus™ Configurable Block Parameters

Detailed Parameter Configuration Options and Default Settings

The National Instruments Fieldbus Configurator

Overview of NI-FBUS Configurator Software and its Features

Fieldbus Device Configuration Exercise

Hands-on Exercises for Configuring a Fieldbus Segment

Overview of Fieldbus Commissioning Procedures

Explanation of FOUNDATION fieldbus™ Device Commissioning

Fieldbus Commissioning Exercise

Comprehensive Procedures for Commissioning Fieldbus Device Networks

Course Description: This interactive, first-look seminar covers topics sufficient to assist the learner in evaluating application of FOUNDATION Technology.

Designed with maintenance and operations personnel in mind, this interactive course will provide end-users with access to all the tools of the trade. Hands-on exercises include: device configuration and setup, segment checkout and commissioning procedures, troubleshooting and more.

Taught by an experienced industry leader in systems configuration and startup, participants will have plenty of opportunity to ask questions and learn best practices. Avoid any unforeseen pitfalls with training and know-how from the World-class leader in Fieldbus training and consulting

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