



FOUNDATION fieldbus™ Fundamentals

A Technology Overview of the Protocol and its Applications

Intended Audience: Managers, Engineers, Designers, and Technicians taking a first look at FOUNDATION fieldbus™ Technology

Course Format: Seminar

Course Length: Full-Day

Prerequisite: None

Materials: Learning Modules and Visual Presentation

Number of Modules: 11 (Plus 2 Optional - Options are the lighter titles)

Module Titles: **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

The Fieldbus Macrocycle

Applying, Scheduling, and Executing Fieldbus Control Strategies

Fieldbus High-Availability Systems

Inherent Functions and Features for Robust and Reliable Fieldbus Networks

Propagation of FOUNDATION fieldbus™ Field Data

Understanding and Using Fieldbus Messaging and Diagnostics

Menus and Methods

Description of FOUNDATION fieldbus™ Method Applications

Course Description: This interactive, first-look seminar covers topics sufficient to assist the learner in evaluating application of FOUNDATION Technology. Taught by an experienced implementor, participants will be able to ask questions regarding installation, economic benefits, best practices and more. Avoid any unforeseen pitfalls with training and know-how from the World-class leader in Fieldbus training and consulting

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