
PRACTICAL FIELDBUS AND DEVICE NETWORKS FOR ENGINEERS AND TECHNICIANS



YOU WILL LEARN:

- The latest in the various FieldBus and Device Network systems that are available today
- The advantages and disadvantages of each of the standards
- How to design, specify, install and commission the appropriate FieldBus or Device Networks for your application
- How to troubleshoot and fix FieldBus and Device Network problems
- How to integrate FieldBus into your overall plant communication Network

WHO SHOULD ATTEND:

Anyone with a need to understand the techniques required to use and apply industrial communications technology as productively and economically as possible. Including:

- Instrumentation and Control Engineers
- Process Control Engineers
- Electrical Engineers
- Process Development Engineers
- Design Engineers
- Control Systems Sales Engineers
- Project Engineers
- Maintenance Supervisors
- Consulting Engineers
- Instrumentation Technicians
- Network System Administrators
- Control Systems Applications Engineers

The Workshop

Practical FieldBus and Device Networks is an intensive 1-day workshop that will enable you to meet one of the greatest challenges within the automation and process control industries: industrial communications, and more specifically, how to apply the new DeviceNet and FieldBus technologies.

This workshop will provide you with a clear understanding of the latest FieldBus and Device Networks on the market and will enable you to specify and design effective systems using this technology.

Workshop Objectives

The Practical Fieldbus and Device Networks workshop aims to break down the jargon barriers and to explain the various FieldBus and DeviceNet technologies in a simple and understandable way. A detailed discussion is then held on the application of the technologies to the various problems challenging you in the plant today.

When you leave this workshop you will:

- be able to competently configure your own network
- know how to effectively and systematically troubleshoot FieldBus and DeviceNet systems
- understand the essential rules in designing and installing these complex networks

Practical Sessions

The workshop includes five practical sessions;

- DeviceNet
- Actuator Sensor Interface (ASI)
- Profibus
- Foundation FieldBus (SP50)
- Design and troubleshooting

The Program

FUNDAMENTAL PRINCIPLES

- Quick revision of communications
- Interface Standards
- Industrial Protocols
- Industrial Networks

DEVICENET

- Basic principles
- Configuration
- Diagnostics
- Troubleshooting

ASI BUS

- Basic principles
- Configuration
- Diagnostics
- Troubleshooting

PROFIBUS PA, DP, FMS

- Basic principles
- Configuration
- Diagnostics
- Troubleshooting

FOUNDATION FIELDBUS

- Basic principles
- Configuration
- Diagnostics
- Troubleshooting

INTEGRATION OF COMPLETE SYSTEM

- Comparison of Fieldbus Standards
- Cabling
- Design, installation and commissioning
- Maintenance

