

# Foundation Fieldbus Process Control | Multimedia Courseware

**H1 Foundation Fieldbus - W33332-AA01UEN-E1**

Objective 1: Describe the Basic Operation of a Fieldbus DCS

**Fieldbus DCS**

A fieldbus DCS is a control network designed for **digital communication** between **controllers** and field devices.

Several features of a fieldbus DCS give it an advantage over analog DCS:

The diagram illustrates a Fieldbus DCS architecture. At the top, a Host HMI (Human-Machine Interface) is connected to a Control Network Bus. Below the bus is a controller unit. The bus is connected to several field devices: a Control Valve and two Pressure Transmitters. The diagram highlights two key features: 'Two-Way Communication, Multiple Parameters' (indicated by blue arrows) and 'Device to Device Communication' (indicated by green arrows).

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## eLearning System: M33332

Foundation Fieldbus is an all-digital, multi-drop communication system used for basic and advanced flow control, temperature control, and tank level control utilized primarily in places like oil refineries, chemical plants, and paper mills. Specifically, this learning system covers key Foundation Fieldbus process control topics, including an overview of industrial network communication technology, H1 wiring and connections, device configuration, and field device calibration and operation.

## Interactive eLearning

### In-Depth eLearning Curriculum

Amatrol's Foundation Fieldbus Process Control 1 training system features interactive eLearning curriculum that integrates various types of learning methods to create an engaging, effective learning experience. Amatrol's multimedia [eLearning](#) curriculum includes text with voiceovers, videos, 3D animations, pictures, and interactive activities, quizzes, and self-reviews. Specific Foundation Fieldbus topics covered include: how components are connected to a Foundation Fieldbus segment, the cabling requirements for segments, the function of user layer blocks and objects, how a device is configured to perform process control functions, and Foundation Fieldbus diagnostic and maintenance capability.

### Free Learning Management System (LMS)

Amatrol eLearning is easy-to-use for both students and instructors. Its web-based interface is simple to navigate and available on any WebGL-compatible Internet browser. Instructors love Amatrol eLearning for its simple, yet sophisticated Learning Management System (LMS). The LMS allows instructors to create custom courses, monitor student participation, track course progress, assess knowledge levels prior to a course, and test knowledge levels after completion. Learners appreciate the fact that they can start and stop as needed, moving through each Amatrol course at their own pace. If a self-review reveals that they didn't understand a particular topic as well as they thought they did, they can revisit it before moving on.

## Additional Info

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### Requires:

- Computer (see [Computer Requirements](#))

### Options:

- Foundation Fieldbus Process Control 1 Learning System ([T5552-FF1A](#))
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#### Address

**Amatrol  
2400 Centennial Blvd  
Jeffersonville, IN 47130**

#### Contacts

**email: [contact@amatrol.com](mailto:contact@amatrol.com)  
phone: (800) 264 8285**