

# **Configuring and Testing Smart Field Devices Course**

## **Venue Information**

Venue: London UK

Place:

**Start Date:** 2025-10-27 **End Date:** 2025-10-31

## **Course Details**

**Net Fee:** £4750.00

**Duration:** 1 Week

**Category ID: EAPET** 

Course Code: EAPET-6

# **Syllabus**

#### **Course Description**

This five days course offers a broad perspective of smart field devices, including transmitters and valve-positioners. The emphasis is on more reliable information gathering, decreased maintenance time, ease-of-use, and multi-tasking capabilities. You will cover use in conventional systems, and enhancements/improvements when combined with digital control networks.

## **Course Objectives**

Participant will be able to:

- Differentiate between analog and digital instruments
- Understand how digital signal sampling works in digital instruments
- Identify the strengths and weaknesses of digital instruments
- Explain the basics of serial digital communications

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- Recognize the capabilities of HARI™ communication
- Understand digital multivariable transmitter

#### **Course Outlines**

## **Analog vs. Digital Instruments:**

- Analog Limitations
- Calibration of Analog vs. Digital Instruments
- Flexibility of Digital Instruments

## **Digital Signal Sampling:**

- Sampled Signal Characteristics
- Output of A/D Converter
- Slow Sampling

## Strength and Weaknesses of Digital Instruments:

- Effect on Performance
- Multiple Measurement
- Programming for Field Level Control
- Future Development

## **Intelligent Control Valves:**

- Digital Positioners
- Diagnostic Tools
- Adding PID Controllers to Control Valves

## **Serial Digital Communications:**

- Parallel to Serial Converter
- Modem

#### **HART Communication:**

- Features
- Master/Slave Communications
- Point-to-Point
- Capabilities of HART

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## 1

# SP50 Fieldbus:

- What It Is
- How Instruments Operate

# Intelligent Multivariable Transmitters:

- How they work
- How they can transmit multiple variables

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