

The course consists of lectures, exercises, and evaluations that are designed to enable the participants to have basic knowledge of process measurement and controls.

DAY 1

- ◆ Basic Principles of Automatic Control
- ◆ Instrument Performance
- ◆ Characteristics
- ◆ Instrument Symbols and Diagrams
- ◆ (ISA Standards)

Day 2

- ◆ **Pressure Measurement**
- ◆ Instrument Data Specifications
- ◆ Level Measurement
- ◆ Level Calculation Exercises
- ◆ Instrument Data Specifications

DAY 3

- ◆ Instrument Data Specifications (Flow)
- ◆ Instrument Data Specifications (Temp)

DAY 4

- ◆ Controllers and Control Schemes
- ◆ Control Modes, PID Algorithm, and
- ◆ Control Action Direction
- ◆ Control Schemes
- ◆ Exercise: Controller Action Direction
- ◆ Control Scheme Identification

DAY 5

- ◆ Final Controlling Element
- ◆ Control Valves and Valve Positioners
- ◆ Selection and Sizing

Hands-On Activity

- ◆ Loop Performance Calculations
- ◆ P&ID
- ◆ Pressure Transmitter Configuration
- ◆ DP Transmitter Configuration
- ◆ Flow Transmitter Configuration
- ◆ Temperature Transmitter Configuration
- ◆ Controller Action Direction Control
- ◆ Scheme Identification
- ◆ Valve Selection & Sizing

For Process Engineers, Instrument Engineers or Technicians who would like to have a fundamental knowledge of Industrial Process

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