PROCESS MEASUREMENT & CONTROL **APPRECIATION**

The course is designed to provide participants with the basic knowledge of automatic process measurement and control.

Course Code PMCA **Duration** 5 days Max Class Size 15

Prerequisite None



Day 1

Basic principles of process measurement and automatic control

Terminology and symbols

Pressure measurement: terminology, working principles of various pressure sensing devices Level measurement : working principles of different level sensing devices

Laboratory work: Calibration of pressure transmitter

Day 2

Temperature measurement: terminology, working principles of temperature detectors Flow measurement: terminology and working principles of flow measuring devices Laboratory work: Calibration of temperature transmitter

Introduction to Fieldmate as a commissioning tool

Day 3

For operators, technicians and new engineers who want to learn the principles of

Analytical measurement: principles of pH and conductivity measurement Final control element and valve positioner Principles of current to pneumatic converter Introduction to Wireless Field Devices

Laboratory work: Calibration of Wireless

Who should attend this course?

process measurement and control.

Pressure Transmitter

Stripping and assembly of valves

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Day 4

Process characteristics Modes of control Laboratory work : Process characteristics, controller action – open loop

Day 5

Controller tuning Laboratory work : PID control response; optimum PID setting