

PROCESS MEASUREMENT & CONTROL APPRECIATION

Course Code PMCA

Duration 5 days

Max Class Size 15

Prerequisite None

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

Who should attend this course?

For operators, technicians and new engineers who want to learn the principles of process measurement and control.

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

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 Pressure Transmitter
Stripping and assembly of valves

PROCESS MEASUREMENT & CONTROL APPRECIATION

Course Code PMCA

Duration 5 days

Max Class Size 15

Prerequisite None



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

