

PROCESS MEASUREMENT AND CONTROL ESSENTIALS

Course Code PMCE

Duration 3 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

Pressure measurement : terminology, working principles of various pressure sensing devices
Level measurement : working principles of different level sensing devices
Temperature measurement : terminology, working principles of temperature detectors
Flow measurement : terminology and working principles of flow measuring devices
Laboratory work : Calibration of pressure & temperature transmitter
Introduction to Fieldmate as a commissioning tool

Day 2

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

Day 3

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