

# 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