



# Introduction To Instrumentation

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## **COURSE CONTENT**

### **Aim**

To provide an appreciation of the operation and application of process plant instrumentation used for the measurement and display of the main process variables of pressure, level, flow and temperature.

### **Pre-requisite**

Suited to personnel new to instrumentation.

### **Course Duration**

The course will be of five day's duration.

### **Optimum Number**

The optimum number of persons on this course will be eight.

### **Training Aids**

Use will be made of lecture notes, audio-visual presentation and discussion.

## COURSE SYLLABUS

### Day 1

- Safe Working Practices
- Permit to Work
- Basic Science and Mathematics

### Day 2

- Introduction to instrumentation
  - Vocabulary / Glossary of Terms
- Safety in electrical testing / Safe Isolation
- Electricity at Work Regulations

### Day 3

- P & ID's
  - Discussion
  - Examples
  - Symbols
  - Reading Assessment

### Day 4

- Introduction to Pressure Measurement
  - Principles, units and types
- Introduction to Flow
  - Rate and quantity of flow

### Day 5

- Introduction to Level
  - Principles and methods
- Introduction to Temp
  - Unit, scales, systems and thermometers
- Evaluation and Review
  - Discussion on further professional development