



# Microprocessor Based Instrumentation

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## **COURSE CONTENT**

### **Aim**

To provide the candidate with a working understanding of the principles of microprocessors and their application to process plant control systems.

### **Pre-requisite**

Ideally suited to those personnel who require knowledge of the operation of microprocessor based controllers and will be involved in using such controllers on their return to the workplace.

### **Course Duration**

The course will be of five day's duration.

### **Optimum Number**

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

### **Training Aids**

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

## COURSE SYLLABUS

### Introduction to Microprocessor Based Controllers

The Block Structure.  
Communications.  
Diagnostics and Reliability.  
Hardware Organisation.

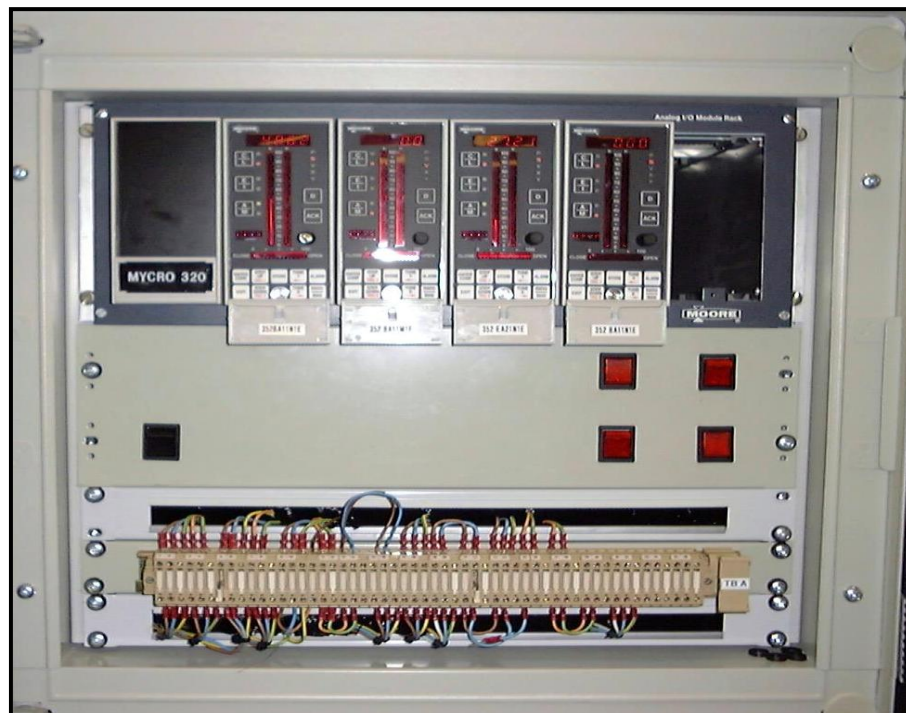
### Functional Description of Circuit Blocks

Front Panel Display.  
Central Processing Unit.  
Memory.  
Input and Output.  
Power Supply Unit.

### Software Function Blocks

Types.  
Analogue Input.  
Analogue Output.  
Control.

Dates available on request



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