

Industrial Process & Instrumentation Control

Course Description:

This course will cover the practical application of process control techniques including basic and advanced regulatory control strategy selection, implementation and tuning or optimum process benefit.

Course Outline:

- Introduction
- Background
- Benefits of control
- Incentives for control
- Symbols and terminology
- Process Characteristics
- Steady State Response
- Effect of disturbances
- Dynamic response
- Process gain
- Lag
- Dead time
- Order
- Approximate response
- Linearity
- Control Loop Characteristic
- Flow loops
- Temperature loops
- Pressure loops
- Level loops
- Feedback Control
- On/Off control
- Modulating control
- Proportional mode
- Integral mode (Reset)
- Derivative mode
- Commercial PID
- Digital control algorithms
- Feedback Controller Tuning:
- Tuning criteria
- Trail and error/tuning
- Open loop tuning
- Closed loop tuning
- Improving ‘as found’
- Practical guideline
- Adaptive tuning

For any further information please contact us at:

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