



YOKOGAWA

Basic Industrial Process

The course consists of lectures, exercises, and evaluations that are designed to enable the participants to have basic knowledge of Industrial Processes

DAY 1

- ◆ **Introduction to Industrial Process**
- ◆ Unit Operation
- ◆ Material Handling
- ◆ Corrosion
- ◆ Utilities
- ◆ Plant and Service Operation
- ◆ Fundamentals of Chemistry

Day 2

- ◆ **Heat Exchangers**
- ◆ Introduction
- ◆ Review of Thermodynamics &
- ◆ Heat Exchangers
- ◆ Basic Principles of Heat Exchanger
- ◆ Types of Heat Exchangers
- ◆ Effects of Temperature-Dependent
- ◆ Fluid Properties
- ◆ Pressure Loss Coefficients
- ◆ Heat Transfer & Flow-Friction
- ◆ Design Date
- ◆ Heat Exchanger Performance
- ◆ Calculation

DAY 3

- ◆ **Distillation**
- ◆ Principles of Distillation
- ◆ Types of Distillation
- ◆ Basic Control Scheme of
- ◆ Distillation
- ◆ Calculation of Reflux
- ◆ Heat Exchanger Applied to Distillation

DAY 4

- ◆ **Boilers**
- ◆ Introduction
- ◆ Basic Principles of Boiler
- ◆ Operation
- ◆ Types of Boilers
- ◆ Air-Fuel Ratio Setting Method
- ◆ Thermal Efficiency of Boilers
- ◆ Theoretical Quantities of
- ◆ Combustion of Air and Dry Gas

DAY 5

- ◆ Evaluation

For Process Engineers, Instrument Engineers or Technicians who would like to have a fundamental knowledge of Industrial Process

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