



# Process Engineering Work Flow Training

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## Introduction:

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Process engineering (also called process systems engineering) focuses on the design, operation, control, and optimization of chemical, physical, and biological processes through the aid of systematic computer-based methods. Process engineering encompasses a vast range of industries, such as chemical, petrochemical, mineral processing, advanced material, food, pharmaceutical, and biotechnological Industries. Process engineering an essential engineering role in chemical process industries to improve operating process performance and enhance the process management in projects. Process engineering classified in to two different applications such as facility process engineering and conceptual process engineering.

- Conceptual Project Development
- Commissioning of the Facilities
- Project Planning
- Process Control
- Project Design
- Project Construction Engineering

## Who Should Attend?

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This training is ideal for HSE engineers, process engineers, mechanical and piping engineers, instrumentation and automation engineers, project engineers and managers, operations and maintenance engineers.

## Objectives & Benefits:

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- Prepares various studies of process cycles and systems for production improvements and enhancements.
- Prepares economic studies associated with process performances.
- Prepares conceptualized process schematics.
- Evaluates competitive bids for process equipment.

## Contents:

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- Basic Engineering Contents
- Basic Engineering Work Flow
- Process Modeling and Simulation - Overview
- Preparation of Heat and Mass Balance
- Preparation of Block Diagram

- Preparation of Process Flow Diagrams (PFDs)
- Sizing of Process Equipment
- Preparation of datasheets
- Preparation of Piping and Instrument Diagrams
- Hydraulic Calculations and Line Sizing
- Utilities and Common Facility Systems
- HAZOP review methodology
- Preparation of Plant Layout
- Standards and Codes - Overview
- Introduction to Front End Engineering Design
- Process Simulation Exercises
- Oil and Gas facilities overview

Operator Software's: HYSYS & PIPEPHASE