

An **LDI Training** Course

BASIC PROCESS ENGINEERING DESIGN

by
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Introduction

The course provides a broad overview of various oil and gas industry processes and the activities carried out while designing the processing facility. The session includes a review of the processing of raw material to get a finished product which can be used for various applications is the prime motive for any industry.

Process engineering is a vast field, wherein someone may find it frightening to understand how everything works together.

This will also provide a comprehensive overview of the design and operational aspects of processing facilities for oil, gas, and their impurities coming out from the wells.

The Aims

Participants will learn:

- A general overview of process engineering
- An awareness of the various processes and issues involved with design
- An awareness of the basic materials and equipment used

- An understanding of industry terms and acronyms

Course Contents

1. Introduction:

- Introduction to Process
- Responsibilities of Process Engineer/Designer
- Scope of Process - Inputs and Outputs

2. Introduction to Oil and Gas Industry

3. Symbols for P&ID

4. Process Flow Diagrams (PFD) preparation

5. Utility Flow Diagrams (UFD) preparation

6. Piping and Instrumentation Diagram (P&ID) preparation,

7. Specialty fittings

8. Instrumentation and process control overview

9. Line sizing for various services

10. Basics of pipe selection

Who Should Attend

Project Engineers, Maintenance Engineers, Operation Engineers, Mechanical Engineers, Process Engineer, Electrical and Instrument Engineers, QA/QC Engineers, Construction Engineers, and other related Engineers, Technologists, Plant Supervisors, and Plant Operators wanting to broaden their understanding of Basic Process Engineering Design

Your Course Leader

Yul Yunazwin Nazaruddin earned a Bachelor of Engineering from the Engineering Physics Study Program, Bandung Institute of Technology, Indonesia and then a Master of Science (M.Sc.) and Diploma of Imperial College (DIC), in Electrical Engineering from Imperial College of Science and Technology, University of London, England, and Doctor-Ingenieur (Dr.-Ing.) in Electrical Engineering from Ruhr University Bochum, Germany, and obtained certification as a professional engineer (Professional Engineer Madya / IPM), from the Indonesia Engineers Association (PII) and he Initiated the formation of the Instrumentation and Control Expertise Group (KK), and currently

serves as *Professor and Chair of the Instrumentation and Control Expertise Group (KK)*, as well as *Head of the Laboratory of Instrumentation, Control and Decision Systems (ICoDes) at the Faculty of Industrial Technology, Bandung Institute of Technology.*

He is active in conducting research in the field of instrumentation and control. He was a visiting researcher at the Department of Control and Systems Engineering, Tokyo Institute of Technology, Tokyo, Japan, from June to September 1998, and in October 2002. He was also a visiting researcher at the Institute for Process Automation, Faculty for Electrical and Computer Engineering, University of Kaiserslautern, Germany and finally in 2019 at the Engineering and Technology Institute Groningen, Faculty of Science and Engineering, University of Groningen.

Course Delivery

- This offline (face to face) course is conducted in Bahasa Indonesia
- Training hours are from 08:00 to 16:00 WIB
- Participants will receive course materials
- Participants will receive a certificate after completing the training

For course registration and more information please email to

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