

PROCESS ENGINEERING FOR NON-PROCESS ENGINEERING PROFESSIONALS

“Understand the Essentials of Process Engineering Without a Technical Background.”

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

▶ **Available delivery methods:** In-House Training

Introduction

This course is designed for professionals outside the process engineering discipline who interact with or support process engineering teams. It provides a solid foundation in key process engineering concepts, terminology, and workflows to improve communication, decision-making, and collaboration across functions.

Objectives

By the end of this course, participants will be able to:

- Understand core process engineering principles and terminology
- Interpret process flow diagrams and equipment specifications
- Appreciate process design and optimization fundamentals
- Identify common process challenges and safety considerations
- Collaborate effectively with process engineers and related disciplines

Why Attend

- Bridge the knowledge gap between technical and non-technical roles
- Enhance your ability to contribute to process-related projects
- Improve cross-functional teamwork and communication
- Reduce misunderstandings and increase project efficiency

Target Audience

- Project Managers and Coordinators
- Operations and Maintenance Personnel
- Sales, Marketing, and Procurement Professionals
- Environmental, Health & Safety Officers
- Business Analysts and Support Staff

Individual Benefits

- Gain confidence in discussing process engineering topics
- Understand the impact of process decisions on business outcomes
- Improve your problem-solving skills related to processes
- Facilitate smoother project delivery and operational support

Organizational Benefits

- Strengthen cross-department collaboration
- Reduce delays and errors due to miscommunication
- Improve overall project and operational efficiency
- Foster a culture of shared understanding and teamwork

Instructional Methodology

- Interactive lectures with simplified explanations
- Real-world case studies and group discussions
- Visual aids including flow diagrams and process models
- Hands-on exercises to interpret process documentation

Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE)

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Introduction to Process Engineering

- Module 1 (07:30 – 09:30): Basics of Process Engineering and Industry Overview
- Module 2 (09:45 – 11:15): Key Terminology and Concepts
- Module 3 (11:30 – 01:00): Understanding Process Flow Diagrams (PFDs)
- Module 4 (02:00 – 03:30): Process Equipment Overview and Functions

Day 2: Process Design and Operation Fundamentals

- Module 1 (07:30 – 09:30): Process Units and Their Roles
- Module 2 (09:45 – 11:15): Material and Energy Balances Simplified
- Module 3 (11:30 – 01:00): Introduction to Control Systems and Instrumentation
- Module 4 (02:00 – 03:30): Safety and Environmental Considerations

Day 3: Process Optimization and Troubleshooting

- Module 1 (07:30 – 09:30): Common Process Challenges and Solutions
- Module 2 (09:45 – 11:15): Basic Troubleshooting Techniques
- Module 3 (11:30 – 01:00): Case Studies: Process Improvements
- Module 4 (02:00 – 03:30): Group Exercise: Analyzing a Process Scenario

Day 4: Communication and Collaboration with Engineers

- Module 1 (07:30 – 09:30): Effective Communication Techniques
- Module 2 (09:45 – 11:15): Reading and Interpreting Engineering Documents
- Module 3 (11:30 – 01:00): Cross-Functional Teamwork Best Practices
- Module 4 (02:00 – 03:30): Role Play: Collaborative Problem Solving

Day 5: Practical Applications and Wrap-Up

- Module 1 (07:30 – 09:30): Using Process Knowledge in Your Role
- Module 2 (09:45 – 11:15): Key Performance Indicators in Process Industries
- Module 3 (11:30 – 01:00): Final Review and Q&A
- Module 4 (02:00 – 03:30): Final Assessment and Certification Ceremony

Certification

Participants who successfully complete the course and assessment will receive a Certificate of Completion: Process Engineering for Non-Process Engineering Professionals to validate their enhanced understanding of process concepts and cross-functional collaboration skills.

Why Choose MAWA Events

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In-House / Customized Training

Interested in running this course for your team?

Please contact us:

TEL:

+601116373203

EMAIL:

info@mawaevents.net

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