

Training Title

PROCESS PLANT START UP & SHUTDOWN

Training Duration

5 days

Training Venue and Dates

PE231	PROCESS PLANT START UP & SHUTDOWN		08 – 12 September, 2019	\$4,250	Dubai, UAE
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In any of the 5 star hotels. The exact venue will be informed once finalized.

Training Fees

- 4,250 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch.

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

The initial start-up of any plant, irrespective of size, type, or industry, is a unique occurrence. Therefore, start-up poses some special problems. Lack of experience in dealing with these problems has frequently resulted in prolonged and costly start-up. This course will provide guidelines for all those involved in the execution of a project on how to achieve a successful plant start-up. The requirements for start-up oriented thinking at all stages of the project, from engineering to commissioning, will be demonstrated.

The course material covers estimating of startup costs, personnel requirements, and resources. It defines the vital role of project management and plant personnel in the preparation and planning for successful startup of any process plant. Emphasis is on effective planning and use of available resources, both material and manpower.

The aim of this course is to provide participants with a complete and up-to-date overview of the start-up and commissioning of petrochemical plants. The course will also cover the troubleshooting of the start-up process. Upon the successful completion of this course, participant will gain enough skills to anticipate and avoid all problems associated with such start-up process. Further, this course will provide participants with a satisfactory understanding of the Crude Distillation Operation & Troubleshooting, Management & organizational issues, estimations of required resources, CPM planning,

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Mechanical integrity, troubleshooting, Start-Up Operations, Technical Inspection, Instrumentation/Control systems, HSE, Systems

TRAINING OBJECTIVES

At the end of the training, participants will be able to:

- ✓ Perform and execute the commissioning and start up activities
- ✓ Describe the general characteristics of plant start-up and commissioning and the role of the team members
- ✓ Describe the commissioning and start up work process as an integral part of operations implementation preparation,
- ✓ Identify the critical success factors and define the roadmap to a successful plant start-up and commissioning
- ✓ Develop the Risk Management structure techniques so that the participant can predict what go wrong during plant startup and commissioning, and identify and plan effective mitigation measures
- ✓ Describe the importance of tightness management during construction and a detailed look at best practices for assuring internal and external tightness
- ✓ Describe the importance of preservation and cleanliness during construction and how it should be managed

WHO SHOULD ATTEND?

This course is designed for project managers, plant managers, plant supervisors, technical staff, and contractor personnel involved in project execution and plant start-up in any process industry.

The greatest benefit arises from the application of these start-up oriented ideas throughout a project, beginning at the conceptual phase. The practical techniques and examples provide useful insights that are valuable at any stage of project execution and preparation for start-up.

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work& Practical Exercises
- 20% Videos& General Discussions

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DAILY COURSE OUTLINE

Day -1

TERMS AND TOOLS

- Introduction
- Start-Up Problems
- Discussion
- Start-Up Planning
- Start-Up Cost Prediction
- Minimizing Equipment Problems
- Discussions and Case Studies

Day 2

MANAGEMENT

- Start-Up Safety and Environmental Issues
- Start-Up Management
- Start-Up Manpower
- Start-Up Leadership
- Discussion Case Studies

Day 3

IN THE FIELD

- Construction Inspection
- Construction Completion – the Beginning of Start-Up
- Commissioning – The Heart of Start-Up
- Start-Up Operations
- Discussion & Case Studies

Day 4

START- UP TROUBLESHOOTING

- Technical Issues
- Solutions
- Implementing Changes

START- UP and PROCESS SIMULATION (HANDS-ON DEMONSTRATION)

- Case Studies Discussions

Day 5

SHUTDOWN and DECOMMISSIONING

- Normal Shutdown
- Decommissioning and demolition

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Course summary and Evaluation

NOTE:

Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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