



*Training Course:
Process Plant Start-up and Commissioning*

13 - 17 April 2025

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Process Plant Start-up and Commissioning

Training Course code: EN234635 From: 13 - 17 April 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 3900 € Euro

Introduction

Start-Up and Commissioning of new plant and equipment present both a major technical and management challenge. An organization's personnel must familiarise themselves with new equipment, processes, and technologies, develop the relevant operating and safety procedures.

This program addresses in an integrated manner the key activities involved in the safe, effective, and timely commissioning and start-up of a new plant or facility. In this program you will learn:

- About the six key stages of the commissioning process
- How to balance the technical and management challenges of commissioning
- How to deal with machinery and equipment specific commissioning issues
- How to Manage Risks and Solve Problems during commissioning

Course Objectives of Process Plant Start-up and Commissioning

- About the six key stages of the commissioning process
- To develop and overall commissioning and plant start-up strategy
- To deal with machinery and equipment specific commissioning issues
- How to manage issues dealing with the commissioning of Electrical, Instrumentation, and Utilities Systems
- To develop an overall commissioning management plan, resource plan, and budget
- Troubleshooting and Problem Solving strategies which can be applied during commissioning
- How to manage risks associated with commissioning

Course Methodology of Process Plant Start-up and Commissioning

Process Plant Start-up and Commissioning is a hands-on, stimulating learning experience. The program will be highly interactive, with opportunities to advance your opinions and ideas. Participation is encouraged in a supportive environment.

To ensure the concepts introduced during the program are understood, they will be reinforced through a mix of learning methods, including lecture-style presentations, open discussion, case studies, simulations, and group

work.

Course Summary of Process Plant Start-up and Commissioning

The need for Plant Start-Up and Commissioning is ongoing in any business that is growing, as the new plant is added to expand capacity and to replace obsolete technology.

This program aims to develop employees through exposure to the training and development experience provided by this program, to build a "cadre" of knowledgeable and skilled staff who will be able to add value through their contributions to any situations involving plant start-up and commissioning.

They will be able to contribute to leadership or operational roles, both with knowledge and skills to ensure such projects are effectively and efficiently managed in a manner consistent with recognized best practices. A spin-off benefit will be their ability to coach and impart learning to their peers and subordinates to the mutual benefit of individuals and organizations.

Course Outlines of Process Plant Start-up and Commissioning

DAY 1 - Introduction and Preparation

- Introduction to Process Plant Start-Up and Commissioning
- Organization and Roles
- Supplementary Topics
- Cost Estimation
- Spare Parts Planning

DAY 2 - Commissioning Strategy

- Commissioning Strategy
- Mechanical Completion & Integrity Checking
- Pre-commissioning and Operational Testing
- Start-up/Initial Operation, Testing, and Acceptance

DAY 3 - Process Plant and Machinery Specific Issues

- Process Plant and Machinery Commissioning
- Instrumentation and Control Systems
- Preparing and Isolating Process Plant

DAY 4 - Management, Planning, and Control

- The Start-Up and Commissioning Planning and Control
- A Short-cut Approaches to Planning
- Progress Monitoring and Control
- Earned Value Analysis

DAY 5 - Managing Risks During Commissioning

- Trouble Shooting and Problem Solving
- Risk Management
- Managing Safety and Quality
- Conclusion

Registration form on the Training Course: Process Plant Start-up and Commissioning

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