



شركة ميرك العربية السعودية
MEIRC Saudi Arabia

Plant startup & Commissioning

Duration 5 Days

Introduction

The initial start-up of any plant, irrespective of size, type, technology or industry, is a unique experience that poses some special problems. Lack of experience in dealing with these problems has frequently resulted in prolonged and costly startups, caused by inadequate preparation for the events of start-up.

This course provides guidance for the necessary preparation required to achieve a successful plant start-up. Start-up oriented thinking at all stages of the project from engineering to commissioning is the first step in proper preparation.

Who Should Attend

This course is designed for Senior and mid-level technical people involved in project execution and preparation for plant start-up in any process industry. While the actual start-ups may differ by industry, the commonalities in preparation provide valuable lessons for people such as the following:

- Project Managers
- Plant Managers
- Start-up Manager, Commissioning Manager
- Process Engineers, Equipment Specialists
- Construction Managers and Supervisors
- Contractors
- Plant Supervisors
- Maintenance Manager

Course Objectives:

Upon completion the course participants will be able to:

- Define basic aspects for plant start up
- List responsibilities of personal involved in commissioning and startup
- Prepare for plant startup and commissioning.
- Follow safety regulations during start up and commissioning.

Course Outlines:

- **Introduction and Preparation**
 - 1.1.Introduction to Process Plant Start Up and Commissioning
 - 1.2.Organisation and Roles
 - 1.3.Supplementary Topics
 - 1.4.Cost Estimation
 - 1.5.Spare Parts Planning
- **Commissioning Strategy**
 - 2.1.Commissioning Strategy
 - 2.2.Mechanical Completion & Integrity Checking
 - 2.3.Pre-commissioning and Operational Testing
 - 2.4.Start-up/Initial Operation, Testing and Acceptance
- **Process Plant and Machinery Specific Issues**
 - 3.1.Process Plant and Machinery Commissioning
 - 3.2.Instrumentation and Control Systems
 - 3.3.Preparing and Isolating Process Plant



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- **Management, Planning and Control**
 - 4.1.The Start Up and Commissioning Planning and Control
 - 4.2.A Short-cut Approaches to Planning
 - 4.3.Progress Monitoring and Control
 - 4.4.Earned Value Analysis
- **Managing Risks During Commissioning**
 - 5.1.Trouble Shooting and Problem Solving
 - 5.2.Risk Management
 - 5.3.Managing Safety and Quality
 - 5.4.Conclusion