



Chemical, Mechanical Engineering



SCANDINAVIAN ACADEMY
Training and Development

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Course: Fundamentals of Chemical Engineering Process Plant Start_up and Commissioning

Code	City	hotel	Start	End	price	Hours
503	Stockholm (Sweden)	Hotel Meeting Room	2024-06-03	2024-06-07	5450 €	25

INTRODUCTION

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

This programme 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 programme 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

PROGRAMME OBJECTIVES

- 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 a 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

TRAINING METHODOLOGY

Process Plant Start-up and Commissioning is a hands-on, stimulating learning experience. The programme 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 programme are understood, they will be reinforced through a mix of



learning methods, including lecture style presentation, open discussion, case studies, simulations and group work.

PROGRAMME SUMMARY

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

This programme aims to develop employees through exposure to the training and development experience provided by this programme, 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 in leadership or operational roles, both with knowledge and skills to ensure such projects are effectively and efficiently managed in a manner consistent with recognised 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 organisation.

PROGRAMME OUTLINE

DAY 1 - Introduction and Preparation

- Introduction to Process Plant Start Up and Commissioning
- Organisation 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



The Scandinavian Academy employs modern methods in training and skills development, enhancing the efficiency of human resource development. We follow these practices:

- **Theoretical Lectures:**
 - We deliver knowledge through advanced presentations such as PowerPoint and visual materials, including videos and short films.
- **Scientific Assessment:**
 - We evaluate trainees skills before and after the course to ensure their progress.
- **Brainstorming and Interaction:**
 - We encourage active participation through brainstorming sessions and applying concepts through role play.
- **Practical Cases:**
 - We provide practical cases that align with the scientific content and the participants specific needs.
- **Examinations:**
 - Tests are conducted at the end of the program to assess knowledge retention.
- **Educational Materials:**
 - We provide both printed and digital scientific and practical materials to participants.
- **Attendance and Final Result Reports:**
 - We prepare detailed attendance reports for participants and offer a comprehensive program evaluation.
- **Professionals and Experts:**
 - The programs scientific content is prepared by the best professors and trainers in various fields.
- **Professional Completion Certificate:**
 - Participants receive a professional completion certificate issued by the Scandinavian Academy for Training and Development in the Kingdom of Sweden, with the option for international authentication.
- **Program Timings:**
 - Training programs are held from 10:00 AM to 2:00 PM and include buffet sessions for light meals during lectures.