

Scandinavian Academy
Training Center

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Riyadh - Al Khaleej District - Sheikh Abdul Aziz Bin Abdul Rahman Bin Bishr Street - 13223 - Office No. 5 | P.O.BOX : 13224

Course: Fundamentals of Chemical Engineering Process Plant Start_up and Commissioning

Code	City	hotel	Start	End	price	Language - Hours
CM-503SA	Al Baha	Hotel Meeting	2027-09-19	2027-09-23	13950 SR	En - 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 for Training Center adopts the latest scientific and professional methodologies in training and human resource development, aiming to enhance the efficiency of individuals and organizations. Training programs are delivered through a comprehensive approach that includes:

- Theoretical lectures supported by PowerPoint presentations and visual materials (videos and short films).
- Scientific evaluation of participants before and after the program to measure progress and knowledge acquisition.
- Brainstorming sessions and practical role-playing to simulate real-life scenarios.
- Case studies tailored to align with the training content and participants work nature.
- Assessment tests conducted at the end of the program to evaluate the achievement of training objectives.

Each participant receives the training material (both theoretical and practical) in printed form and saved on a CD or flash drive. Detailed reports, including attendance records, final results, and overall program evaluations, are also provided.

Training materials are prepared professionally by a team of experts and specialists in various fields. At the end of the program, participants are awarded a professional attendance certificate, signed and accredited by the Scandinavian Academy for Training Center.

Program Timings: 9:00 AM to 2:00 PM

The program includes:

- A daily buffet provided during the sessions to ensure participants comfort.
- A closing ceremony on the final day to distribute certificates and celebrate participants achievements.
- **Note: All prices are exclusive of 15% Value Added Tax (VAT).**

Our Success Partners

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