



Consulting and Training | Reach New Heights

Course Name

Process Plant Start-up and Commissioning

Sector Name

Mechanical Engineering

Document Type

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Process Plant Start-up and Commissioning

Course Introduction

Embarking on the start-up and commissioning of new plant and equipment constitutes a significant technical and managerial undertaking. With this understanding, the Process Plant Start-up and Commissioning training course grapples with the technical intricacies of commissioning and initiating various equipment and asset types commonly encountered within processing plant environments, while also delving into process and facility-wide commissioning strategies and pertinent management concerns.

This training course offers a holistic approach to understanding and executing the pivotal activities necessary for the secure, efficient, and timely commissioning and start-up of a fresh plant or facility. Throughout the program, participants will be exposed to vital insights regarding the six fundamental stages characterizing the commissioning process, along with techniques for effectively managing the delicate balance between technical and managerial challenges inherent in the commissioning phase. Moreover, the course will delve into equipping attendees with the necessary skills to handle machinery and equipment-specific commissioning issues, while also providing tools for effectively managing risks and troubleshooting the various problems likely to arise during the commissioning process.

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Process Plant Start-up and Commissioning

Target Audience

- ✓ Commissioning & Start-up Engineers – Overseeing safe and efficient plant initiation.
- ✓ Mechanical & Process Engineers – Ensuring system integrity and performance.
- ✓ Maintenance & Reliability Engineers – Preparing for long-term equipment operation.
- ✓ Project & Plant Managers – Managing schedules, risks, and resource allocation.

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Process Plant Start-up and Commissioning

Learning Objectives

- ✓ Identify the six key stages of the commissioning process.
- ✓ Create an overall commissioning and plant start-up strategy.
- ✓ Address machinery and equipment-specific commissioning issues.
- ✓ Handle issues related to the commissioning of Electrical, Instrumentation, and Utilities Systems.
- ✓ Formulate an overall commissioning management plan, resource plan, and budget.
- ✓ Implement troubleshooting and problem-solving strategies for common start-up and commissioning issues.
- ✓ Mitigate risks associated with commissioning.

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Process Plant Start-up and Commissioning

Course Outline

✓ **01 DAY ONE**

Introduction and Preparation for Start-Up and Commissioning

- ✓ Introduction to Process Plant Start-Up and Commissioning
- ✓ Organisation, Roles and Leadership
- ✓ Support Functions
- ✓ Cost Estimation
- ✓ Spare Parts Planning

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Course Outline

✓ 02 DAY TWO

Commissioning Strategy and Process

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

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Course Outline

✓ **03 DAY THREE**

Process Plant and Machinery Specific Issues

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

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Course Outline

✓ 04 DAY FOUR

Project Managing Start-Up/Commissioning Projects

- ✓ Work Breakdown Structures
- ✓ The Critical Path Method of Planning and Control
- ✓ Short-Cut Planning Methods
- ✓ Budgeting, Progress, and Cost Control
- ✓ Earned Value Analysis

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Course Outline

✓ 05 DAY FIVE

Problem Solving, Risk and Safety Management

- ✓ Introduction to Problem Solving and Troubleshooting
- ✓ Troubleshooting in Commissioning and Start Up Situations
- ✓ Safety and Environment Management
- ✓ Managing Risk
- ✓ Conclusion

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Process Plant Start-up and Commissioning

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 15, 2027	March 19, 2027	5 days	4950.00 \$	South Africa , Cape Town
June 29, 2026	July 3, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Sept. 14, 2026	Sept. 18, 2026	5 days	4250.00 \$	UAE , Dubai
Oct. 5, 2026	Oct. 9, 2026	5 days	4250.00 \$	UAE , Dubai

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