



Consulting and Training | Reach New Heights

Course Name

Process Plant Troubleshooting

Sector Name

Instrumentation & Controls

Document Type

Generated by Boostlab

[Click Here To Visit Course](#)

ABU DHABI: +971 2 449 6000

ABU DHABI: +971 50 412 3294

DUBAI: +971 4 888 6787

KSA: +966 56 416 0617

EGYPT: +20 127 111 1770



Process Plant Troubleshooting

Course Introduction

This course is designed to equip participants with comprehensive knowledge and practical skills for troubleshooting process plants. The course covers fundamental principles of plant operations, the diagnostic techniques used to identify issues, and effective solutions to restore optimal performance. Through hands-on exercises, real-life case studies, and expert guidance, participants will be empowered to tackle plant inefficiencies, equipment failures, and process disruptions.

ABU DHABI: +971 2 449 6000
ABU DHABI: +971 50 412 3294
DUBAI: +971 4 888 6787
KSA: +966 56 416 0617
EGYPT: +20 127 111 1770

[Click Here To Visit Course](#)



Process Plant Troubleshooting

Target Audience

- ✓ Process engineers and plant operators.
- ✓ Maintenance engineers and technicians.
- ✓ Production supervisors and plant managers.
- ✓ Engineers involved in process optimization and troubleshooting.

ABU DHABI: +971 2 449 6000
ABU DHABI: +971 50 412 3294
DUBAI: +971 4 888 6787
KSA: +966 56 416 0617
EGYPT: +20 127 111 1770

[Click Here To Visit Course](#)



Process Plant Troubleshooting

Learning Objectives

- ✓ Diagnose and troubleshoot common issues in process plants.
- ✓ Analyze process data to identify root causes of equipment and process failures.
- ✓ Apply systematic troubleshooting methodologies.
- ✓ Enhance plant performance through effective problem-solving strategies.
- ✓ Implement preventive measures to minimize operational disruptions.

ABU DHABI: +971 2 449 6000
ABU DHABI: +971 50 412 3294
DUBAI: +971 4 888 6787
KSA: +966 56 416 0617
EGYPT: +20 127 111 1770

[Click Here To Visit Course](#)



Process Plant Troubleshooting

Course Outline

✓ 01 Day One

Introduction to Process Troubleshooting and Systematic Approaches

Session 1: Overview of Process Plant Operations

- ✓ Introduction to process plants and key operational parameters.
- ✓ Common challenges and issues encountered in plant operations.

Session 2: Systematic Troubleshooting Methodologies

- ✓ The importance of a structured approach to troubleshooting.
- ✓ Step-by-step diagnostic process: observation, analysis, and solution.
- ✓ Tools and techniques for effective problem identification.

Session 3: Root Cause Analysis (RCA)

- ✓ Introduction to RCA and its significance in troubleshooting.
- ✓ Methods for performing RCA in process environments.
- ✓ Techniques for gathering process data and using it for failure analysis.

Session 4: Case Study: Troubleshooting Process Inefficiencies

- ✓ Real-life case studies focused on diagnosing process inefficiencies.

- ✓ Group discussion and exercise on identifying root causes

ABU DHABI: +971 2 449 6000

ABU DHABI: +971 50 412 3294

DUBAI: +971 4 888 6787

KSA: +966 56 416 0617

EGYPT: +20 127 111 1770

[Click Here To visit Course](#)



Process Plant Troubleshooting

Course Outline

✓ 02 Day Two

Troubleshooting Equipment and Process Failures

Session 1: Troubleshooting Common Equipment Failures

- ✓ Identifying issues in pumps, compressors, heat exchangers, and valves.
- ✓ Common symptoms and failure modes of process equipment.
- ✓ Techniques for resolving equipment-related issues in process plants.

Session 2: Process Flow and Control Issues

- ✓ Troubleshooting flow inconsistencies, pressure imbalances, and control loop failures.
- ✓ Diagnosing control valve issues and instrumentation problems.
- ✓ Understanding process upsets and their impact on plant operations.

Session 3: Troubleshooting Process Variables

- ✓ Examining temperature, pressure, flow, and composition variances.
- ✓ Analyzing deviations from process setpoints and their root causes.
- ✓ Practical techniques for correcting abnormal process conditions.

Session 4: Case Study: Equipment and Process Troubleshooting

- ✓ Analysis of real-world cases where process and equipment failures occurred.
- ✓ Participants work in groups to identify and resolve the issues.

ABU DHABI: +971 2 449 6000

ABU DHABI: +971 50 412 3294

DUBAI: +971 4 888 6787

KSA: +966 56 416 0617

EGYPT: +20 127 111 1770

[Click Here To visit Course](#)



Process Plant Troubleshooting

Course Outline

✓ 03 Day Three

Advanced Troubleshooting Techniques and Preventive Measures

Session 1: Advanced Troubleshooting Tools and Software

- ✓ Overview of diagnostic tools and software used in modern process plants.
- ✓ Using predictive analytics and data-driven approaches to prevent failures.
- ✓ Applying advanced monitoring systems to enhance troubleshooting efficiency.

Session 2: Preventive and Predictive Maintenance Practices

- ✓ Implementing preventive maintenance to reduce plant downtime.
- ✓ Integrating predictive maintenance with troubleshooting efforts.
- ✓ Monitoring equipment health and performance trends.

Session 3: Best Practices in Plant Troubleshooting

- ✓ Guidelines for developing a troubleshooting culture in the workplace.
- ✓ Continuous improvement strategies for enhancing plant reliability.
- ✓ Building effective communication between operations and maintenance teams.



Session 4: Final Case Study and Troubleshooting Exercises

- ✓ Participants apply the course concepts to a comprehensive troubleshooting scenario.
- ✓ Group presentations and peer evaluations.
- ✓ Final Q&A session and course wrap-up.

ABU DHABI: +971 2 449 6000

ABU DHABI: +971 50 412 3294

DUBAI: +971 4 888 6787

KSA: +966 56 416 0617

EGYPT: +20 127 111 1770

[Click Here To visit Course](#)



Process Plant Troubleshooting

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Oct. 26, 2026	Oct. 28, 2026	3 days	3950.00 \$	Spain , Madrid
Feb. 1, 2027	Feb. 3, 2027	3 days	3250.00 \$	UAE , Abu Dhabi
Aug. 16, 2027	Aug. 18, 2027	3 days	3250.00 \$	UAE , Dubai
May 10, 2027	May 12, 2027	3 days	3250.00 \$	UAE , Dubai

ABU DHABI: +971 2 449 6000
ABU DHABI: +971 50 412 3294
DUBAI: +971 4 888 6787
KSA: +966 56 416 0617
EGYPT: +20 127 111 1770

[Click Here To vist Course](#)

info@boostuae.com info@boostorg.com

Generated by BoostLab •

