

TROUBLESHOOTING PROCESS OPERATION

“Enhance Operational Reliability by Identifying, Analyzing, and Resolving Process Issues Efficiently.”

Schedule

Venue (In-house)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

Process industries face frequent operational challenges that can affect product quality, safety, and productivity. Effective troubleshooting is key to minimizing downtime, reducing losses, and maintaining process efficiency.

The Troubleshooting Process Operation course equips participants with practical skills and structured methodologies to analyze process issues, identify root causes, and implement corrective actions efficiently. Participants will gain hands-on experience in systematic problem-solving and operational optimization techniques.

Objectives

By the end of this course, participants will be able to:

- Understand the fundamentals of process operations and typical process challenges.
- Apply systematic troubleshooting methodologies for operational issues.
- Identify root causes of process deviations, failures, or inefficiencies.
- Analyze process data to support decision-making and corrective actions.
- Implement effective solutions to optimize process performance.
- Prevent recurring problems through proactive maintenance and monitoring.
- Enhance communication and collaboration during troubleshooting activities.
- Improve safety, reliability, and quality in process operations.

Why Attend

Operational issues in process industries can result in significant downtime, financial losses, and safety risks. This course provides structured troubleshooting techniques, practical insights, and problem-solving tools to empower operators, engineers, and managers to resolve issues quickly, efficiently, and safely.

Target Audience

This course is suitable for:

- Process Operators and Technicians
- Maintenance and Reliability Engineers
- Production Supervisors and Managers
- Process and Chemical Engineers
- Plant Managers and Shift Leaders
- Quality Assurance and Safety Professionals

Individual Benefits

- Gain practical skills in troubleshooting and problem-solving.
- Learn to quickly identify root causes and implement corrective actions.
- Improve analytical and decision-making capabilities.
- Enhance professional competence in process operations and reliability.
- Increase confidence in managing operational challenges effectively.

Organizational Benefits

- Minimize downtime and operational losses.
- Improve process reliability, safety, and product quality.
- Reduce maintenance costs and avoid recurring problems.
- Foster a proactive approach to problem-solving and operational optimization.
- Build in-house expertise for systematic troubleshooting and process improvement.

Instructional Methodology

The training employs a practical, hands-on approach:

- Instructor-led sessions on troubleshooting principles and methodologies
- Case studies on process deviations, failures, and recovery
- Hands-on exercises in data analysis, root cause identification, and solution implementation
- Group exercises and collaborative problem-solving activities
- Simulations of real-world process issues
- Continuous feedback, Q&A sessions, and applied exercises

Course Outline

- Module 1: Introduction to Process Operations and Common Challenges
- Module 2: Fundamentals of Troubleshooting – Principles and Approaches
- Module 3: Systematic Problem-Solving and Root Cause Analysis
- Module 4: Process Data Monitoring, Interpretation, and Analysis
- Module 5: Troubleshooting Mechanical, Instrumentation, and Control Systems
- Module 6: Implementing Corrective and Preventive Actions
- Module 7: Process Optimization Techniques
- Module 8: Safety, Quality, and Compliance in Troubleshooting
- Module 9: Case Studies – Real-World Process Troubleshooting
- Module 10: Practical Exercises – Resolving Process Deviations and Failures

Certification

Upon successful completion, participants will receive a Certificate in Troubleshooting Process Operation, acknowledging their expertise in analyzing, resolving, and optimizing process operations for safety, reliability, and efficiency.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training

Interested in running this course for your team?

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