# Mastering Process Operation Troubleshooting Techniques

7 – 11 November 2027
Amman (Jordan)

UK Traininig
PARTNER



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**Ref:** 322860_216876 **Date:** 7 – 11 November 2027 **Location:** Amman (Jordan) **Fees:** 4900 GBP

## Course Description

This intensive 1-week course equips participants with advanced troubleshooting skills for process operations. Attendees will learn systematic approaches to identify, analyze, and resolve complex operational issues in industrial processes. The course combines theoretical knowledge with practical exercises to enhance problem-solving capabilities and optimize plant performance.

## Learning Objectives

- Develop a structured approach to troubleshooting process operations
- Apply root cause analysis techniques to identify underlying issues
- Implement effective solutions to minimize downtime and maximize efficiency
- Enhance decision-making skills in high-pressure situations
- Improve communication and teamwork during troubleshooting scenarios

## Course Modules

### Day 1: Fundamentals of Process Operation Troubleshooting

- Introduction to process systems and common issues
- Troubleshooting methodologies and best practices
- Safety considerations in troubleshooting
- Data collection and analysis techniques

### Day 2: Root Cause Analysis and Problem-Solving Tools

- Root cause analysis techniques 5 Whys, Fishbone diagrams
- Fault tree analysis and FMEA
- Process control loops and instrumentation troubleshooting
- Case studies in equipment malfunction diagnosis

### Day 3: Advanced Troubleshooting Techniques

- Statistical process control for identifying abnormalities
- Predictive maintenance strategies
- Troubleshooting complex systems and interactions
- Simulation tools for process analysis



### Day 4: Human Factors in Troubleshooting

- Decision-making under pressure
- Effective communication during critical situations
- Team dynamics in troubleshooting scenarios
- Managing stress and fatigue in 24/7 operations

### Day 5: Implementing Sustainable Solutions

- Developing standard operating procedures SOPs for common issues
- Continuous improvement methodologies
- Knowledge management and lessons learned documentation
- Action planning for ongoing operational excellence

## Practical Wins for Participants

- Ability to quickly diagnose and resolve complex process issues
- Improved plant efficiency and reduced downtime
- Enhanced teamwork and communication during critical situations
- Development of a systematic approach to continuous improvement in operations

