BLACKBIRD FOR TRAINING

Reverse Osmosis Monitoring and Troubleshooting Mastery

6 – 10 December 2026
Riyadh (KSA)



Reverse Osmosis Monitoring and Troubleshooting Mastery

Ref: 322861_237541 **Date:** 6 – 10 December 2026 **Location:** Riyadh (KSA) **Fees:** 4200 GBP

Course Description

This comprehensive 1-week course provides in-depth knowledge and practical skills for monitoring and troubleshooting reverse osmosis RO systems. Participants will learn advanced techniques for system operation, maintenance, and problem-solving, ensuring optimal performance and longevity of RO installations.

Learning Objectives

- Understand RO principles and system components
- Master monitoring techniques and data interpretation
- Develop advanced troubleshooting skills for common RO issues
- Learn preventive maintenance strategies to optimize system performance
- Gain hands-on experience with RO system operation and maintenance

Course Modules

Day 1: RO Fundamentals and System Components

- Principles of reverse osmosis
- RO system components and their functions
- Membrane types and characteristics
- Pre-treatment and post-treatment systems

Day 2: Monitoring Techniques and Data Analysis

- Key performance indicators for RO systems
- Data collection and logging methods
- Normalization of operating data
- Trend analysis and interpretation

Day 3: Troubleshooting Common RO Issues

- Identifying and resolving membrane fouling
- Scaling prevention and remediation
- Addressing low permeate quality and flow
- Pressure and flow-related problems



Day 4: Advanced Diagnostics and Maintenance

- Membrane autopsy techniques
- Chemical cleaning procedures
- Preventive maintenance strategies
- Optimizing system performance and efficiency

Day 5: Hands-on Practice and Case Studies

- Practical exercises on RO system operation
- Troubleshooting simulations
- Case study analysis and problem-solving
- Best practices for long-term system management

Practical Wins for Participants

- Ability to independently monitor and troubleshoot RO systems
- Skills to optimize RO performance and reduce operational costs
- Confidence in handling complex RO issues and maintenance tasks
- Knowledge to extend membrane life and improve system efficiency

