



# OVERVIEW OF MAINTENANCE STRATEGIES

(Preventive, Predictive, Reactive Maintenance)



BUILDING COMPETENCE, INSPIRING CONFIDENCE

# Overview

The course provides an insight to maintenance strategies namely, preventive, predictive and reactive maintenance. How these maintenance strategies work and contribute to overall reliability and on stream factor along with measures to realize cost optimization. The program emphasizes how each strategy contributes to enhancing reliability, availability, and on-stream factors, while also focusing on practical measures to achieve cost optimization without compromising safety or performance



Reactive  
Maintenance



Preventive  
Maintenance



Predictive  
Maintenance

## Why Us:

We deliver industry-focused training that empowers professionals and organizations to achieve operational excellence. Each program is customized to client needs, ensuring practical relevance and measurable results.

Our expert trainers bring real-world insights, industrial case studies, sharing their experiences and best practices to every session. We create engaging, actionable learning experiences that bridge the gap between theory and practice.

## Who Should Attend:

Mid-level Engineers and maintenance professionals responsible for planning, managing, or optimizing maintenance operations and balancing technical reliability with cost efficiency.

# Course Outline

## Topic 1

### Preventive Maintenance

Focuses on scheduled inspections and servicing to reduce the likelihood of equipment failures. Participants will learn how to design effective preventive maintenance programs that extend asset life and minimize unplanned downtime.

## Topic 2

### Predictive Maintenance

Covers condition monitoring, data analytics, and diagnostic tools that help anticipate failures before they occur. Emphasis is placed on using technology (e.g., vibration analysis, thermography) to optimize maintenance intervals and reduce costs.

## Topic 3

### Reactive Maintenance

Explains when and why reactive (run-to-failure) strategies may be appropriate, and how to manage them effectively to avoid excessive downtime or safety risks.

# Course Outline

## Topic 4

### Asset Integrity Management Regimes

Introduces frameworks and standards for maintaining equipment in safe, reliable operating condition throughout its lifecycle, with focus on risk-based approaches and compliance.

## Topic 5

### Objectives

Clarifies the role of maintenance strategies in achieving organizational goals such as safety, reliability, availability, and cost-efficiency. Participants will learn how to align maintenance objectives with business performance targets.

## Topic 6

### Implementation Challenges

Explores common hurdles such as resource constraints, lack of skilled workforce, cultural resistance, and data management issues. Practical solutions and change-management strategies are discussed.

## Topic 7

### Cost Optimization Measures

Highlights methods for balancing maintenance expenditure with performance outcomes, including prioritization of critical assets, risk-based maintenance planning, and use of technology for cost control.

# Trainers



**Mr. Shahid Ahmed**

**Senior Trainer & Consultant**

Mr. Shahid Ahmed, a Mechanical Engineer, began his career at National Fertilizer Corporation before joining Fauji Fertilizer Company Ltd (FFC), where he served for 30 years and rose to Senior Manager Maintenance. As Head of Maintenance, he led all maintenance operation for dual Ammonia-Urea trains, developing strategies to enhance equipment reliability, optimize costs, and extend asset life. Renowned for his leadership and technical expertise, he trained numerous Engineers and fostered high performing teams. His core strengths include preventive maintenance planning, shutdown execution, inventory and asset management, safety compliance, and vendor negotiation. He presented a technical paper at the AIChE Forum in Boston and holds certifications in Strategic Planning (University of Michigan) and Negotiation Strategies (Harvard Law School).



**Mr. Mansoor Ahmed**

**Senior Trainer & Consultant**

Mr. Mansoor Ahmed is a seasoned Mechanical Engineer with over 35 years of leadership experience in industrial maintenance and plant operations. At Fauji Fertilizer Company (FFC), he spent more than 25 years in key roles, including Planning Manager & Maintenance Manager, where he led major turnarounds, shutdowns, and critical equipment repairs. He also served as Assistant Works Manager at Heavy Industries Taxila. With a B.E. in Mechanical Engineering, an MBA in Marketing, and a Diploma in Chinese Language, he has further enhanced his expertise through international certifications and leadership training from China, the Netherlands, Turkey, Malaysia, Singapore, IBA Karachi, and LUMS. Known for his strategic planning, mentorship, and strong operational command, he is widely respected for his contributions to plant reliability and team development.

# Logistics

## Duration

2 days

## Location

At Client's Site / Lahore

## Training Instructors

Mr. Shahid Ahmed | Mr. Mansoor Ahmed

Get in Touch

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