



MAINTENANCE COST OPTIMIZATION

BUILDING COMPETENCE, INSPIRING CONFIDENCE

Overview

Maintenance cost optimization is one of the most critical challenges in industrial operations. Both under-maintenance and over-maintenance can lead to significant losses. This course equips participants with strategies to reduce maintenance costs while maintaining equipment reliability, operational safety, and plant efficiency.

Course Objective:

To develop the ability to evaluate, plan, and implement cost-effective maintenance strategies that balance performance, safety, and expenditure, ensuring long-term asset reliability.

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 monitoring, managing, and optimizing maintenance budgets and performance in industrial environments.

Course Outline

Topic 1

Benchmarking Maintenance Costs

Assessing current maintenance expenditures and comparing them with industry best practices to identify cost gaps and opportunities.

Topic 2

Engineering Solutions for Cost Reduction

Implementing design improvements, system modifications, and process enhancements to optimize performance and reduce long-term costs.

Topic 3

Improving System Efficiencies

Enhancing utilization of equipment, manpower, and energy through effective planning, scheduling, and workflow optimization.

Course Outline

Topic 4

On-Stream Maintenance

Performing maintenance while equipment remains operational to minimize downtime and maximize plant availability.

Topic 5

Contracted-Out Services

Effectively managing outsourced maintenance through vendor evaluation, performance monitoring, and cost-value analysis.

Topic 6

Reducing Downtime

Applying preventive and predictive maintenance strategies to reduce breakdown frequency and production losses.

Topic 7

Spare Parts and Consumables Optimization

Controlling inventory costs through standardization, bulk purchasing, and vendor-managed inventory systems.

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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