

Logistics

Duration

2 days

Location

At Client's Site / Lahore

Training Instructors

Mr. Sajjad Hussain | Mr. Khadim Hussain

Get in Touch

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✉ **info@ftc-consultancy.com**



Fateh
Trainings & Consultancy

Trainers



Mr. Sajjad Hussain
Senior Trainer / Consultant

Mr. Sajjad Hussain is a seasoned mechanical engineer with over 34 years of experience in maintenance, reliability, and plant management within the fertilizer industry. A UET Lahore graduate, he built his career at Fauji Fertilizer Company, rising to Senior Manager Maintenance for twin-train Ammonia and Urea plants. Renowned for his expertise in high-pressure equipment—including turbines, compressors, and pumps, he has led major overhauls, plant commissioning projects, and international technical engagements across the USA, Italy, Saudi Arabia, and more. A committed mentor and trainer, he has developed and delivered specialized courses on machinery maintenance and continues to shape future professionals through hands-on knowledge and leadership.



Mr. Khadim Hussain
Senior Trainer / Consultant

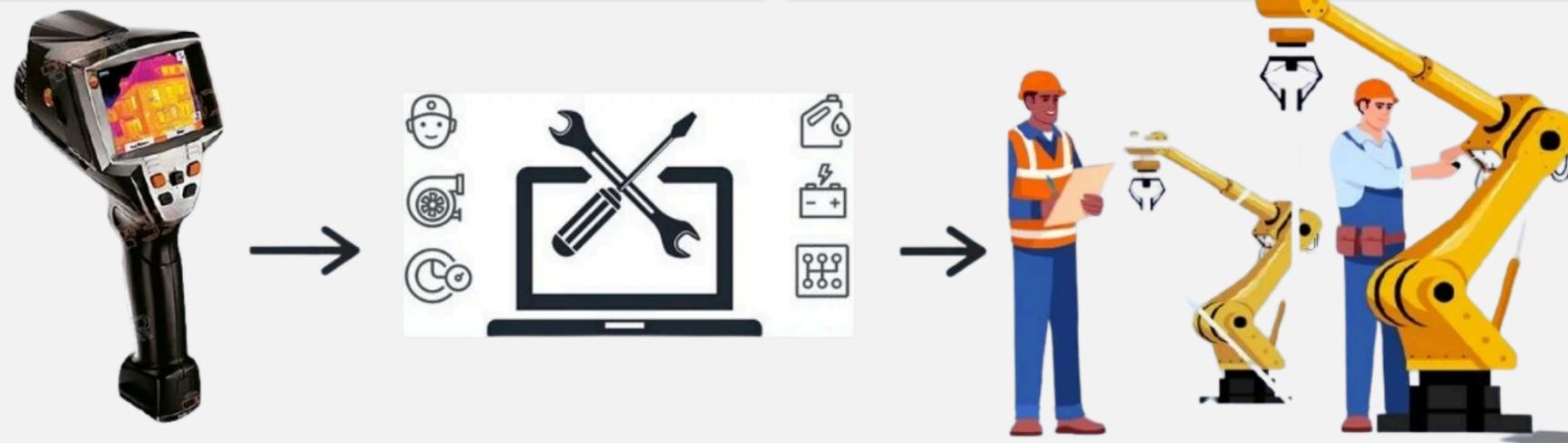
Mr. Khadim Hussain is a turbomachinery specialist with over 36 years of hands-on experience in the maintenance, overhauling, and reliability enhancement of critical rotating equipment. A Mechanical Engineering graduate from UET Lahore, he has deep expertise in steam turbines, gas compressors, pumps, gearboxes, and SOLAR gas turbines. He has led major machinery revamps and troubleshooting initiatives across Pakistan and abroad, including projects in Saudi Arabia, Bahrain, and Switzerland. Known for resolving complex reliability challenges and spearheading equipment upgrades, he has also contributed to warranty issue resolution with global OEMs. As a consultant and trainer, Khadim blends technical depth with practical insight, making him a trusted expert in the fertilizer and process industries.

Predictive Maintenance (PdM)

- Uses real-time data and analytics to predict failures.
- Parameters: vibration, temperature, pressure, oil quality, electrical signals.
- Integrates IoT sensors, ML algorithms, and analytics platforms.
- Enables precise intervention timing → reduced downtime & cost.

Benefits of Predictive Maintenance

- Early fault detection and failure prevention
- Extended equipment life
- Optimized maintenance intervals
- Reduced operational costs and downtime
- Enhanced safety, reliability, and performance

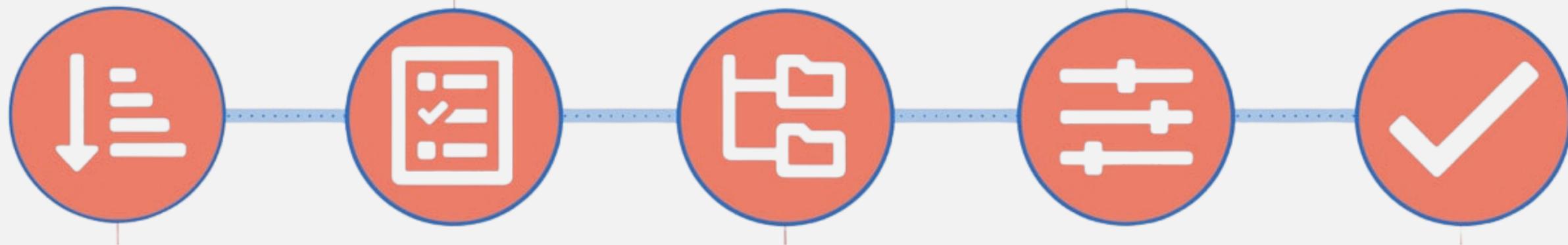


Preventive Maintenance

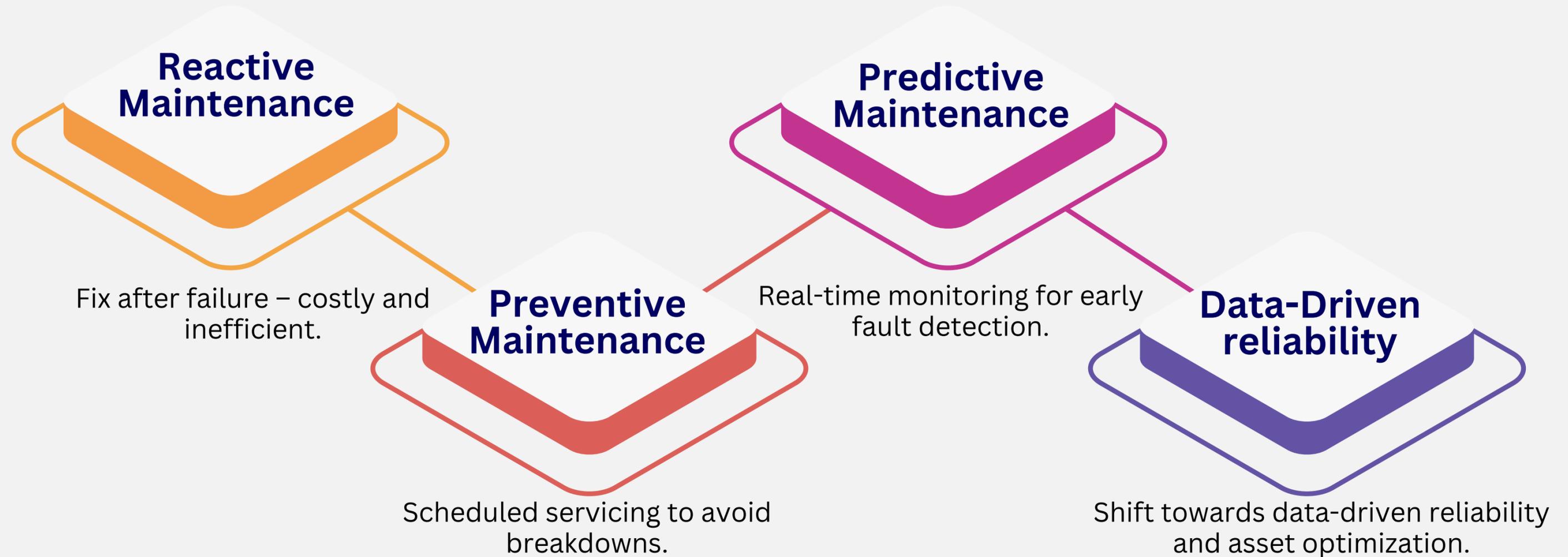
- Planned, time-based interventions per OEM and operational data.
- Reduces risk of unexpected failures.
- Enhances equipment lifespan and production continuity.
- Forms the foundation of reliability-centered maintenance (RCM).

Condition Monitoring & Analysis

- Vibration monitoring & analysis
- Oil and lubrication testing
- Thermography (heat mapping)
- Non-Destructive Testing (NDTs)
- Process parameter tracking
- Gas & leak detection for safety



Evolution of Maintenance Strategies



Overview

Effective maintenance is the backbone of reliable, safe, and cost-efficient plant operations. This training introduces preventive and predictive maintenance strategies that enhance equipment reliability, minimize unplanned downtime, and promote operational excellence in fertilizer and petrochemical industries.

Learning Objectives:

- Transition from reactive to predictive maintenance strategies
- Design and implement integrated maintenance program
- Apply condition monitoring techniques effectively
- Use data-driven insights to boost reliability and performance

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:

- Maintenance & Reliability Engineers
- Plant Engineers & Operations Managers
- Maintenance Planners & Supervisors
- Instrumentation & Inspection Engineers



PREVENTIVE AND PREDICTIVE MAINTENANCE Principles & Implementation

BUILDING COMPETENCE, INSPIRING CONFIDENCE

