



PLANT TURNAROUND (TA) AND SHUTDOWN PLANNING

BUILDING COMPETENCE, INSPIRING CONFIDENCE

Overview

- Plant turnaround and shutdown planning are critical for maintenance, inspection, and upgrades in process industries.
- Proper planning ensures operational integrity, safety, and minimal production loss.
- TA/SD performance directly impacts company revenue, profit, and 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:

- Maintenance Engineers
- Planning / Scheduling Engineers
- Operations Engineers
- Support staff and turnaround stakeholders

Course Objectives

- Understand the purpose and scope of plant turnarounds and shutdowns
- Learn effective planning, scheduling, and communication strategies
- Develop and implement risk and safety procedures.
- Coordinate resources and logistics efficiently
- Conduct post-shutdown reviews and identify improvement areas



Key Takeaways

- Structured TA/SD planning ensures safe and efficient maintenance
- Focused planning improves plant performance and profitability
- Continuous learning and review sustain long-term operational success

Course Outline

Topic 1

Purpose of the Turnaround / Shutdown

- Define reasons for TA/SD: maintenance, inspection, or upgrades
- Align objectives with organizational goals
- Achieve increased runtime and reduced shutdown frequency
- Optimize outage duration and coordination with the business plan

Topic 2

Scope, Timeline & Communication Plan

- Task Identification: List all maintenance, repair, and inspection activities
- Detailed Scheduling: Define milestones, start/end dates, and monitoring checkpoints
- Communication Plan: Ensure continuous information flow between teams, management, and partners to align expectations

Topic 3

Risk Assessment & Safety Procedures

- Conduct hazard identification and risk analysis
- Develop mitigation strategies for potential hazards
- Enforce safety protocols, PPE use, and emergency response readiness
- Train staff for safe execution of shutdown activities

Course Outline

Topic 4

Resource Allocation & Logistics Coordination

- Determine manpower, equipment, and material requirements
- Ensure timely procurement and mobilization of resources
- Develop logistics plans for material handling and site transport
- Maintain quality standards and minimize outage duration

Topic 5

Post-Shutdown Review

- Document all shutdown activities for compliance and reference
- Review performance and analyze lessons learned
- Identify opportunities for process improvement
- Enhance future TA/SD efficiency through feedback and benchmarking

Topic 6

Benefits of Effective Turnaround Planning

- Minimized Downtime – Reduced production interruption
- Cost Savings – Optimized maintenance budgets
- Improved Safety – Controlled risks and better compliance
- Enhanced Reliability – Higher equipment uptime and operational integrity

Trainers



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.



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).

Logistics

Duration

2 days

Location

At Client's Site / Lahore

Training Instructors

Mr. Mansoor Ahmed | Mr. Shahid Ahmed

Get in Touch

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