

€ TRAINING

Shutdown Maintenance Turnaround
Management





Shutdown Maintenance Turnaround Management

Introduction:

This training program focuses on equipping participants with essential skills to effectively manage shutdowns, turnarounds, and outages in industrial facilities. It empowers them to implement best practices that enhance workflow efficiency and operational reliability.

Program Objectives:

By the end of this program, participants will be able to:

- Understand the principles and importance of shutdown maintenance turnaround management.
- Gain proficiency in planning, scheduling, and executing shutdowns and turnarounds.
- Learn techniques for optimizing workflow and resource management during maintenance events.
- Develop skills in risk assessment, mitigation, and contingency planning specific to shutdowns.
- Implement strategies for continuous improvement in turnaround processes and outcomes.

Target Audience:

- Maintenance managers, supervisors, and planners in industrial facilities.
- Plant engineers and operations personnel responsible for shutdown and turnaround management.
- Project managers and coordinators overseeing maintenance activities.
- Safety and compliance officers involved in shutdown planning and execution.
- Professionals seeking to enhance their knowledge and skills in turnaround management and workflow improvement.

Program Outline:

Unit 1:

Overview of Shutdown Maintenance Turnaround Management:

- Definition and Importance of Shutdown Maintenance Turnaround TA.
- Types of Shutdowns and Turnarounds: Planned vs. Unplanned, Major vs. Minor.

- Regulatory Requirements, Safety Standards, and Environmental Considerations.
- Challenges and Risks Associated with Shutdown and Turnaround Activities.
- Key Performance Indicators KPIs and Metrics for TA Management.

Unit 2:

Planning and Scheduling Turnarounds:

- Strategic Planning and Preparation for Turnarounds.
- Development of Turnaround Plans, Scope, and Objectives.
- Workforce and Resource Allocation for Turnaround Activities.
- Coordination with Operations, Contractors, and Stakeholders.
- Documentation, Permits, and Compliance Requirements.

Unit 3:

Execution and Management of Turnarounds:

- Phases of Turnaround Execution: Pre-TA, TA, and Post-TA Activities.
- Roles, Responsibilities, and Organizational Structure during Turnarounds.
- Monitoring Progress, Milestones, and Performance Metrics.
- Communication, Reporting, and Documentation Management.
- Change Management and Contingency Planning during Turnarounds.

Unit 4:

Risk Assessment, Mitigation, and Safety:

- Identification of Risks, Hazards, and Critical Tasks during Turnarounds.
- Risk Assessment Techniques: HAZOP, FMEA.
- Implementation of Safety Protocols and Mitigation Measures.
- Emergency Response Planning and Incident Management.
- Lessons Learned and Continuous Improvement Practices.

Unit 5:

Workflow Optimization and Best Practices:

- Evaluation and Analysis of Turnaround Performance and Efficiency.
- Root Cause Analysis RCA for Turnaround Issues and Delays.
- Implementing Best Practices for Workflow Optimization.
- Training and Development for Turnaround Personnel.
- Emerging Trends and Innovations in Turnaround Management.