



MAINTENANCE AND RELIABILITY FOR MANAGERS

Award winning 4-part series

4-PART SERIES INCLUDES:

Establish Your Best Practices Foundation

Reaching and sustaining the pinnacle of best practices requires a strong foundation based on strong management and leadership principles.

- Learn the benefits and how to achieve a Best Practices organization
- Recognize the impact equipment reliability has on outperforming your competition
- Know the financial consequences of ineffective Maintenance practices
- Learn why corporate liposuction is not the true competitive answer
- Know why equipment management is not solely a maintenance issue
- Find hidden profit within your facility
- Receive the tools needed to help your organization determine the potential Return on Investment (ROI) in achieving Maintenance Best Practices
- Learn how to prepare your plant for overall organizational change
- Learn how to develop unyielding leadership that focuses on reliability, starting at the top roles
- Drive the force for change and create a compelling vision to engage people
- Create partnerships for success
- Know where to start – focus on the greatest losses first
 - Gap assessment • Objectives and targets
 - Plan of improvement
- Learn Key Performance Indicators (KPIs) that help you determine your actual maintenance state (i.e. reactive, proactive, or world-class)
- Why planning and scheduling are a central hub to creating change

Manage And Drive Improvement

Proper planning, scheduling, and execution of work is critical to drive a proactive environment, and in fact, is the central hub on the wheel for all of the maintenance functions.

- Learn the role of the Computerized Maintenance Management System /Enterprise Asset Management System (CMMS/EAM)
- Establish work flows and processes for effective planning
 - Use the tools that assist in the planning of work
 - Know the role of the planner/scheduler and how to interface with the various site functions including materials management and the operations partners

Create A Proactive Team Environment

Achieving Best Practices often requires significant cultural change and not only to the existing processes and practices. People must change in order to reach and sustain a proactive environment.

- Understand difference between managing and leading people
 - Create systems that enable people to succeed
 - Understand employee motivation and how it relates to job satisfaction
 - Learn people management techniques and how to use them
 - Building personal relationships - what you can't do from behind the desk
- Know the different leadership styles along with how and when to apply them
 - Learn case studies in true leadership
 - The audit process - You get what you inspect
- How to sustain change using pilot areas and drive the spread
- Learn the most important tool to help create change - communication
 - Methods of effective communication
- Develop job knowledge and skills
 - Methods for training workforce knowledge and skills
 - Use job certifications and apprenticeship program structure and implementation
 - Address the upcoming skills shortage
 - Hire the right knowledge
- Evaluate performance evaluation and development plans
 - Set goals and expectations
 - Hold people accountable to meet expectations
- Know the roles and functions of the maintenance organization
- Learn methods for documenting processes and roles within the organization
- Understand the power of an educated workforce
 - Distribute costs across the organization
 - Identify Key Performance Indicators
 - Create the job plan and a job library
 - Manage and measuring work execution
 - Audit work
 - Learn preventive and predictive maintenance processes and procedures
 - Proper work execution and precision maintenance
 - Learn how to properly schedule work
 - Creating the effective scheduling process with partnerships

Develop Reliability Improvement Techniques

Learn the tools and how to use them to continuously improve and sustain Best Practices for your organization.

- Understand maintenance or reliability engineering and the role it plays
- Use techniques to utilize Root Cause Failure Analysis (RCFA or RCA)
- Learn about Failure Modes and Effects Analysis (FMEA)
- Learn the roles of Preventive and Predictive Maintenance (PM and PdM)
- Recognize the role of non-intrusive inspections to drive equipment reliability
- Know the types of predictive maintenance and when to apply the techniques
- Know Operations and equipment owner involvement
- Learn techniques for effective project startups and commissioning that build in effective equipment reliability and life-cycle costing
- Know the failure rates and Mean Time Before Failure (MTBF)
- Understand the bathtub curve and that most equipment does not fail due to age
- Slice up the Potential – Failure (PF) curve
- Learn about Weibull Analysis
- Design for equipment reliability
- Fix the methods that encourage project engineering teams to compromise equipment reliability and maintainability

Establish Maintenance Partnerships

With increasing capacity and ultimately, profits as the goals, maintenance only controls a small portion of the organization's daily activities. Partnerships with other functions within the organization are required to achieve these goals.

- Recognize how equipment operators and their actions impact equipment reliability
- Create procedures and enforcing them to ensure mistake proofing
- Engage everyone to a common goal with the partnership approach and ownership
- Learn about Autonomous Maintenance and the Total Production Manufacturing (TPM)
- Learn how sales and marketing drive overall equipment capacity and reliability
- Drive improvements with an introduction to Single Minute Exchange of Die (SMED)

Establishing The Site Dashboard

Managing and measuring with Key Performance Indicators (KPIs) to show progress and sustain proactive behaviors.

- Create effective metrics to show and drive continuous improvement
- Use the CMMS/EAM reporting tools
- Create a data collection system that supports the Dashboard
- Use trending analysis to your advantage

