MARSHALL INSTITUTE

Global Leaders In Maintenance & Reliability

Maximizing Asset Reliability through Preventive Maintenance

Big Goals Deserve Big Results.

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Maximizing Asset Reliability through Preventive Maintenance Overview

This NEW seminar teaches the key concepts required to optimize and implement a Preventive Maintenance (PM) program based on the principles of Reliability-Centered Maintenance.

Ineffective PM programs produce unnecessary downtime due to equipment failures, resulting in higher maintenance and operations costs, lower quality, and lower productivity. These consequences mean that optimizing your current PM program isn't just a maintenance objective, it is an organizational imperative.

This seminar focuses on the tools and techniques utilized in an effective and efficient PM program. Participants will learn five key maintenance strategies: Interval-Based, Condition-Based (PdM), Modify/Redesign, Run-to-Failure, and Redundancy; and the key factors for determining the optimal PM strategy for a piece of equipment.

In addition, we will explore the five crucial questions for writing an effective PM, common condition monitoring tools, and key concepts for PM Optimization.

Who will benefit most?

- Those responsible for reviewing and improving PMs
- Those responsible for program/process improvement
- Stakeholders who support, or are affected by the PM program

Learning Objectives

- Understand the common deficiencies of current PM programs and that there are rational and effective methods by which they can be improved.
- Develop a business case for PM improvement.
- Understand the basic principles of Reliability - Centered Maintenance.
- Apply basic principles of Reliability Centered Maintenance (RCM) to analyze and improve your existing PM program, and eliminate or reduce your current failures.
- Understand the differences among the various maintenance strategies and identify the appropriate application of each.
- Write clear and effective PM procedures using good practices.
- Know the critical elements to implement and sustain an effective PM program.

Contact us to improve your Maintenance and Reliability performance:

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Maximizing Asset Reliability through Preventive Maintenance Seminar Content

Day 1

- Building a Business Case
- Principles of Reliability-Centered Maintenance
  - Fundamentals of RCM
  - Failure Curves
  - P-F Curve
  - Failure Quadrants
  - Decision Logic Tree
- PM Optimization
  - What is PMO?
  - Comparing Methods of RCM Maintenance Analysis to PMO
  - Why Optimize Your PMs?
  - Process Overview

Day 2

Maintenance Strategies (Part 1)

- Introduction
  - Breakdown Maintenance
- Interval-Based Maintenance
  - Preventive Maintenance —Lubrication
- Condition-Based Maintenance
  - Common Condition Monitoring Tools including: Vibration Analysis, Dynamic Balancing, Laser Shaft Alignment, Ultrasound, Ultrasonic Thickness Inspection, and Infrared Thermography (Cont'd on Day 3)

Day 3

Maintenance Strategies (Part 2)

- Condition-Based Maintenance
  - Common Condition Monitoring Tools including: Oil Analysis, Electric Motor Diagnostics, On-Line Monitoring
  - Twelve Essential Steps…in building a Condition-Based Maintenance Program
  - Proactive Maintenance
  - Run to Failure
- Writing PM Tasks and Procedures
  - Components of an Effective PM Procedure
  - Steps for Writing a Good PM Task
- Developing and Implementing an Effective PM Program
  - Develop an Effective PM Program
  - Implementation
  - Action Planning

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