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Introduction to Developing Reliability-Based Maintenance Strategies

An introduction to the basic maintenance strategy model that will act as the foundation for developing RCM techniques, choosing and deploying PMs and creating an effective maintenance strategy to support an efficient maintenance environment.

COURSE OUTLINE

1. Maintenance Strategy Models

- Maintenance Strategies
- Reactive Maintenance Strategy vs. Preventative/Predictive Maintenance Strategy
- Benefits of Preventative/Predictive Maintenance Strategy

2. Basic RCM Techniques

- Objective of a Preventative/Predictive Maintenance Program
- Use of Reliability Centered Maintenance (function/functional failure/failure mode/failure effects)
- Failure Consequence Categories

3. PM Task Selection

- Nature of Equipment Failures
- Types of Preventative/Predictive Maintenance Tasks

4. Basic PM Tools

- Predictive Maintenance Technologies
- Use of Criticality Ranking as an Aid in Preventative/Predictive Maintenance Program Development
- Preventative/Predictive Maintenance Program Optimization Requirements

5. PM Program Design

- Basic Reliability Centered Maintenance/Failure Modes Effects Analysis Process
- Use of RCM/FMEA in Preventative/Predictive Program Development

6. PM Development Principles

- Use of Quantifiable Information in PM Task Development
- Quantifiable Data vs. Data that is Not Quantifiable

7. PM Scheduling Techniques

- PM Scheduling Requirements
- Phase Preventative Maintenance and Time Interval Adjustments
- PM Shadowing
- PM Load Balancing

8. PM Program Monitoring

- Use of Performance Measures to Evaluate the Health of a Preventative/Predictive Maintenance Program
- Evaluation of Performance Measures Used to Monitor Asset Health

OBJECTIVES

Discuss the maintenance strategy models, basic RCM techniques, proper PM task selection, basic PM tools, basic PM program design, the principles of PM development, PM scheduling techniques, PM program monitoring and basic principles of TPM

WHO SHOULD ATTEND?

Entry level: Maintenance Planners and Schedulers, Maintenance Managers and Supervisors, Maintenance Staff, Plant Engineers, and Operations, Storeroom and Purchasing Managers

PREREQUISITES

None

