

DAY 1

The Need for Maintenance

- Maintenance & Asset Management as a Business Process
- Risk Based Maintenance (RBM)
 - Causes of Failure
 - Likelihood & Severity of Failure - Risk Analysis
 - Failure Mode Effect & Criticality Analysis (FMECA)
 - Choosing the (preventive) Maintenance Tasks
- Optimization of Maintenance Decisions
 - Failure Pattern Identification
 - Statistical Analysis of Failures
 - Weibull Analysis
- Zero Base Budgeting
 - Define the Production Requirement
 - Define the Maintenance Requirement

DAY 2

Developing the CMMS

- Database & Structure
- CMMS & Workflow
- CMMS & Maintenance Strategies
- Asset Register
- Configuration Management

DAY 3

The Planning Function

- The Maintenance Workflow and How It Relates to the Preventive Maintenance Strategy
- Roles & Responsibilities in Work Preparation, Planning and Scheduling
- Principles of Work Preparation & Planning
- Principles of Scheduling
- Network Planning

DAY 4

Predictive Maintenance

- Potential Failure Analysis (PFA)
 - Integration of PFA with FMECA & RBM
 - Understanding the P-F Interval
 - Decide which Technologies to Apply
- Predictive Maintenance Technologies
 - Vibration Analysis
 - Visual Inspection
 - Infrared Thermography
 - Temperature Sensitive Labels
 - Megger Tests
 - Ultrasonics
 - Oil Analysis

DAY 5

Control of the Maintenance Process

- Implementation Stages of Preventive & Predictive Maintenance Strategies
- CMMS Integration
- Reporting – Use of (Key) Performance Indicators
- Case Study