

Part 2 - Introduction to Profit Centered Maintenance (Profit Centred Maintenance)

THE BUSINESS OF MAINTENANCE

- Make Maintenance Profit Focused
- The 6 Purposes of Maintenance
- Turning Maintenance into a Profit Centre
- Develop a Plan to Reach Mastery
- Turn Objectives into Systematic Activities
- 4 Pillars of Quality Management Systems
- Elements of a Good Management System
- What Are the Critical Success Factors?
- The Benefits of Profit Centered Maintenance Organization and Control
- Maintenance Management Best Practice - Today
- Make Maintenance a System of Processes
- Strategic Business Importance of Reliability
- Least Long-Run Average Production Cost

RELIABILITY IS WHAT MAINTENANCE PRODUCES

- Benefits Reliable, Productive Equipment
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- Using Failure Patterns to Select Maintenance Practices - 'Infant Mortality'
- Using Failure Patterns to Select Maintenance Practices - 'Random Failure'
- Using Failure Patterns to Select Maintenance Practices - 'End-of-Life'
- Choice of Maintenance Types
- Condition Monitoring Based on Equipment Degradation Cycle

MAINTENANCE STRATEGY CHOICES

- Maintenance Strategies for Risk Reduction
- Opportunity Maintenance Explained
- Preventive Maintenance Characteristics
- Breakdown Maintenance Characteristics
- Predictive Maintenance Characteristics
- Equipment Reliability Characteristics
- Relative Production Consequences of Maintenance Types
- Maintenance Strategy Selection
- Match Maintenance Strategies to Risk
- Move from Reactive... to Proactive... to Risk Reduction

SELECTING MAINTENANCE TO DELIVER RELIABILITY

- Reliability of Systems of Parts and Components i.e. Machines
- Equipment Reliability Strategies
- Precision Operation Extends Productive Life
- Failure Prediction Mathematics - Weibull Reliability of Parts and Components

Reliability and Maintenance Management2.txt

- Implications of Reliability on Maintenance
- When and How Much Maintenance?
- Strategies for Reliability Improvement
- Failure Mode Effects Analysis (FMEA) Fundamentals
- Failure Mode Identification

MAINTENANCE IS A RISK MANAGEMENT STRATEGY

- Classical Risk Analysis Method
 - What Risks Are Out There?
 - Equipment Criticality
 - Recognise Size of Equipment Risk
 - Risk Influences Maintenance Type
 - Base Maintenance on Operating Risk Matrix
 - Match Maintenance and Operating Practices to Equipment Criticality
 - Activity 2 – Match operating and maintenance requirements to criticality
 - Equipment Condition Monitoring Technologies for Inspection and Prediction
 - Condition Monitoring to Optimise Availability
 - Selecting PM frequency depends on ...
 - Developing a PM Program Spreadsheet
 - Determine Component-Based PM Frequency by Statistical Analysis
 - Collecting Data for Component Statistical Analysis
 - Activity 3 – Develop a PM Program for the Pump Set Installation and ‘Support System’
 - Selecting PdM Frequency (How often to monitor equipment condition?)
 - Developing a PdM Program Spreadsheet
 - Activity 4 – Develop a PdM Program for the Pump Set Installation and ‘Support System’
 - Activity 5 – Imbedding good practice PM and PdM into organisations
- Benefits of Failure Elimination

CONTINUALLY IMPROVING MAINTENANCE AND RELIABILITY RESULTS

- Root Cause Failure Analysis (RCFA)
- Root Cause Failure Analysis Process
- Root Cause Failure Analysis Example
- How RCFA Contributes To Improvement
- Risk Identification and Removal worksheets
- Journey from Repair-focused to Reliability-focused Culture
- Tools on the Journey to Reliability
- Improving Reliability by Setting Maintenance KPIs and Measuring Outcomes
- Meaningful Maintenance and Reliability Performance Measures

