

Part 3 - Maximum Life Cycle Profit Maintenance

RUN YOUR MAINTENANCE FOR PROFIT

- When You Design a Plant You are Designing a Business
- When Operating Costs are Committed
- The Design Process Limits Reliability
- Design and Operating Cost Totally Optimised Risk (DOCTOR)
- Life Cycle Risk Management Strategy (Optimised Operating Profit Method)
- Why You Need Defect Elimination and Failure Prevention
- Problems Waste Time, Money and Resources
- Eliminate Defects to Prevent Problems
- Count the Failure Modes Defects Cause (553)
- Function of Business is to Wisely Profit
- Defects and Failures True Costs
- Failure Costs Surge thru the Company
- Defect and Failure True (DAFT) Costs go Company-wide
- Repeated failures and stoppages totally destroy profitability
- Effects of DAFT Costs
- We Need to Capture All Incident Costs to Justify Removing Their Causes
- Calculate DAFT Costs on Spreadsheets
- Benefits of Reducing Operating Risk

MANAGING RISK IN YOUR BUSINESS AND OPERATIONS

- Standard Risk Management Process Needs DAFT Costs to Find Real Risk
- Implications of DAFT Costs to Risk
- Quantify the Financial Cost of Risk
- Determine Your Acceptable Failure Domain
- What & When to Spend to Prevent Failure
- The Application of Risk Based Principles to Managing Maintenance
- Equipment Risk and Criticality based on Defect and Failure True Costs
- Identify what Risks You WILL NOT Carry
- Reduce Risk with Chance Reduction and Consequence Reduction Strategies

USE PRECISION MAINTENANCE AND PRECISION PRACTICES FOR FAILURE-FREE OPERATION

- Precision Maintenance: Ultra-High Reliability Strategy
- The Added Value of Defect Elimination and Failure Prevention
- Precision is a Serious Opportunity
- Precision across entire 'equipment system'
- Machines fail but we replace parts...
- Typical Precision Maintenance Program Content
- Typical Standards for a Precision Maintenance Program
- Accuracy Controlled Enterprise (ACE) Procedures
- The Accuracy Controlled Enterprise is...
- Accuracy Controlled SOPs Remove Variation with Proactive Statistical

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Control

- Set Standards and Standardise their Use
- 6 Mechanical Equipment Care Standards to Set, Use and Keep Using

GETTING OPERATORS TO DRIVE EQUIPMENT RELIABILITY

- Operator and Maintainer Watch-keeping Tools
- Use Visual Management to show Progress and Feedback
- Train Operators and Trades in Precision

MODERNIZE, SYSTEMATIZE AND STANDARDIZE YOUR MAINTENANCE PROCESSES

- Quality Management System for Continual Maintenance Improvement
- Maintenance Management Best Practice - Profit-Focused Ultra-High Reliability

- Plant and Equipment wellness
- Plant and Equipment wellness Defined
- Remove variation ... by setting standards and measuring accuracy
- Prevent failure ... by defect elimination
- Prevent failure ... by proactive precision maintenance
- Risk control ... by chance reduction □ risk management
- Accuracy control ... by precision domain practices
- Accuracy control ... by precision systems
- Measure/Monitor/Improve Performance ... by process step value contribution

- The Continuous Improvement Journey

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