

Essential World-Class Maintenance Metrics Every CMMS Should Measure

01 Equipment downtime

Mean Time To Repair (MTTR) **02**

03 Schedule compliance

Maintenance backlog **04**

05 Overall Equipment Effectiveness

Maintenance Cost as Percent of RAV **06**

07 Planned Maintenance Percentage

Average days to complete work orders **08**

09 Asset efficiency

World Class Maintenance Management

Rolly Angeles



World Class Maintenance Management:

World Class Maintenance Management Terry Wireman,1990 This informative resource will aid plant engineers in organizing their maintenance function while minimizing maintenance activities and costs It will provide a framework of options allowing maintenance decision makers to select the most successful way for them to manage their specialty

World Class Maintenance Management Rolly Angeles,2018-04-02 This book depicts the life and struggles of maintenance in seeking better ways and means in improving how to manage and maintain their equipment and assets The Author shares his passion and experience about what it takes to achieve a World Class Maintenance level maintenance **The Handbook**

of Maintenance Management Joel Levitt,2009 Now thoroughly updated to include advances in technology and thinking this comprehensive and easy to understand resource provides a short review of all the major discussions going on in the management of the maintenance function **Maintenance - Roadmap to Reliability** Peter Todd,2020-06 This book

depicts the life and struggle of maintenance in seeking better ways and means to improve the reliability of the equipment and assets The author shares his experience on how to achieve such feat Transitioning from a reactive to a proactive maintenance stage is not an easy tasks but it is not also an impossible tasks What the author believes is that the key to everything is educating the maintenance people on what maintenance is all about Training is where we acquire knowledge to develop the skills required to do our job right This book contains real life stories struggles and actual experiences by the author in his career in maintenance and currently as a Reliability and Maintenance Consultant Every industry must change their paradigm and realize that maintenance are not repair people The meaning of the word maintain is simply to preserve our equipment and assets And we can only preserve our assets if maintenance are equipped with the right knowledge on how to perform their jobs right the first time around I have written this book in order to reach out to industries in search of discovering ways to improve not only their equipment and assets but as well as their maintenance human resources Remember that maintenance is not a department it is not a function or any organization but rather maintenance are humble and down to earth human being hence let us provide them with the respect that they truly deserve because that is all they ask for

Cutting Edge Maintenance Management Strategies Rolly Angeles,2020-06-07 Cutting Edge Maintenance Management Strategies is a book written for industries seeking ways on how to improve the way they do maintenance on their equipment and assets to increase its reliability Reliability is not just for reliability and maintenance but it is everyone s responsibility for industries *Managing Factory Maintenance* Joel Levitt,2004 Tap into Joel Levitt s vast array of

experience and learn how to improve almost any aspect of your maintenance organization including your own abilities This new edition of a classic first educates readers about the globalization of production and the changing of the guard of maintenance leadership and then gives them real usable ideas to aid in these areas Completely reorganized so that material is presented within the context of major sections the second edition tells the story of maintenance management in factory

settings It provides coverage of potential problems and new opportunities what bosses really want specifics for improvement of maintenance and production World Class Maintenance Management revisited and revised quality improvement complete coverage of current maintenance practices processes process aids interfaces and strategies as well as personal and personnel development strategies Features Contains a specialized glossary so users can more easily understand the specialized language of factory maintenance Provides specific how to tips and concrete techniques and examples for continuous improvement Updates the 20 steps to world class maintenance to include the 6 areas of focus for world class maintenance Includes a completely updated maintenance evaluation questionnaire that reflects new techniques and technologies Breaks down and explains the three team approach to maintenance work Offers new sections on managing shutdowns craft training and communications Contains major revisions to the RCM discussion and includes a new discussion about PMO

WORLD CLASS MAINTENANCE MGMT Rolly Angeles, 2016-10-15 This book depicts the life and struggles of maintenance in seeking better ways and means in improving how to manage and maintain their equipment and assets The Author shares his passion and experience about the day to day struggles in the life of a maintenance What is interesting about the Author and his book is that even though he hails from the Philippines the problems issues and struggles we face in maintenance is generic and can be felt by any industry from whatever place race and culture This book contains real life stories struggles and actual experiences by the Author in his career in maintenance and currently as a Reliability and Maintenance Consultant The book is easy to absorb as it is structured into three parts which are the Basics the Strategies and the Advance Disciplines The Twelve Disciplines are grouped accordingly into these three parts Maintenance often time seek for advance ways in dealing with their everyday problems and issues The message of this book is simple and straightforward that there is no better way to start by going back to the Basics and addressing these very small problems we have in our plant Big problems unplanned break downs and catastrophic failures are just an accumulation of small problems that has always been ignored and mostly neglected in the first place The Author strongly emphasize the importance operators play in addressing these basic equipment condition and is considered a partner with maintenance on this shared responsibility they have towards their equipment It is very difficult or impossible for maintenance people to transcend from a reactive to a proactive mode if operators will not be involved along the way When the Basics had been set and well established then maintenance can move on with the different maintenance and reliability strategies which are explained in detail on this book Each Chapter covers a specific maintenance discipline Chapter 14 of this book covers an implementation plan

Maintenance Audits Handbook Diego Galar Pascual, Uday Kumar, 2016-04-06 This book addresses issues and challenges of performance measurement in the maintenance function It presents a proposal of indicators with a framework that classifies and sorts regarding functional and hierarchical aspects The book has been developed with different aspects of traditional literature i e several frameworks or natural groupings like BSC Balanced Scorecard Multicriteria framework

Neely Prism and adaptation of these frameworks Hierarchies for the use of indicators and benchmark values are provided to allow quantification comparison and emission of recommendations *Maintenance Roadmap to Reliability* Rolly Angeles,2020-06-07 **Cutting Edge Maintenance Management Strategies** Rolly Angeles,2020-06-07 **An Introduction to Predictive Maintenance** R. Keith Mobley,2002-10-24 This second edition of An Introduction to Predictive Maintenance helps plant process maintenance and reliability managers and engineers to develop and implement a comprehensive maintenance management program providing proven strategies for regularly monitoring critical process equipment and systems predicting machine failures and scheduling maintenance accordingly Since the publication of the first edition in 1990 there have been many changes in both technology and methodology including financial implications the role of a maintenance organization predictive maintenance techniques various analyses and maintenance of the program itself This revision includes a complete update of the applicable chapters from the first edition as well as six additional chapters outlining the most recent information available Having already been implemented and maintained successfully in hundreds of manufacturing and process plants worldwide the practices detailed in this second edition of An Introduction to Predictive Maintenance will save plants and corporations as well as U S industry as a whole billions of dollars by minimizing unexpected equipment failures and its resultant high maintenance cost while increasing productivity A comprehensive introduction to a system of monitoring critical industrial equipment Optimize the availability of process machinery and greatly reduce the cost of maintenance Provides the means to improve product quality productivity and profitability of manufacturing and production plants Managing Maintenance Shutdowns and Outages Joel Levitt,2004 You can have the ability of saving money immediately Maintenance Decision Making Liliane Pintelon, Frank Van Puyvelde,2006 Over the last decades maintenance management has evolved from a somewhat neglected function into a full fledged business function in the industry as well as in the service sector This book provides a structured approach to maintenance management It covers maintenance strategy decisions resource management assessment system design etc Decision support models and tools in these areas are discussed from the theoretical point of view and illustrated by numerous examples and case studies Due to its concept the book can be interesting for students as well as practitioners This book is the successor of Maintenance Management 2000 which gave an introduction in the field Maintenance - Roadmap to Reliability Rolly Angeles,2018 This book depicts the life and struggle of maintenance in seeking better ways and means to improve the reliability of the equipment and assets The author shares his experience on how to achieve such feat Transitioning from a reactive to a proactive maintenance stage is not an easy tasks but it is not also an impossible tasks What the author believes is that the key to everything is educating the maintenance people on what maintenance is all about Training is where we acquire knowledge to develop the skills required to do our job right This book contains real life stories struggles and actual experiences by the author in his career in maintenance and currently as a Reliability and Maintenance Consultant Every

industry must change their paradigm and realize that maintenance are not repair people The meaning of the word maintain is simply to preserve our equipment and assets And we can only preserve our assets if maintenance are equipped with the right knowledge on how to perform their jobs right the first time around I have written this book in order to reach out to industries in search of discovering ways to improve not only their equipment and assets but as well as their maintenance human resources Remember that maintenance is not a department it is not a function or any organization but rather maintenance are humble and down to earth human being hence let us provide them with the respect that they truly deserve because that is all they ask for The message of this book is simple and straightforward There is no better way to start the journey to reliability other than to go back to the basics and addressing these very small problems we have in our plant Big problems unplanned breakdowns and catastrophic failures are just an accumulation of small problems that has always been ignored in the first place Maintenance is always a shared responsibility for operators and maintenance working together in complete harmony It will be difficult for maintenance to transition from a reactive to a proactive mode if operators will not be involved in doing maintenance since maintenance is always a shared responsibility for operators and maintenance This book explains in detail on how to proceed with the 4 Phases of Planned Maintenance and how to integrate RCM into the TPM process It also covers the importance of doing Autonomous Maintenance as well as Spare Parts Management which is believed to be the missing link theory on any reliability and maintenance strategy Chapter 11 is a classic case study on what maintenance can achieve if there is a clear roadmap to follow The last chapter states that maintenance are just human like you and me What is important is not to blame them for every single failure that occur in the plant but for both operations and maintenance to work together on the problem Many industries are looking for a structured and detailed approach on how they can improve their maintenance asset and resources This book provide that level of information Each chapter begins with a quote on wisdom of maintenance and at the end of each chapter will be a quiz for you to answer Google Books

Maintenance Management Manual ,1994 Reliability - a Shared Responsibility for Operators and Maintenance
Rolly Angeles,2021-05-02 One of the biggest missing link in reliability is the separation between operators and maintenance This book had to be written for industries to realize what they are missing For as long as operators and maintenance in industries remain a separate function Industries will continue to be reactive My goal is to reach out to industries and convince them that these two cannot co exists without each other and that it is time for both operators and maintenance to finally work together to improve not only the productivity but also the Reliability of their equipment and assets Separating these two only creates feuds and friction between them When I sometimes think about this all I can say is that the problems in industries remain deeply rooted in their organization from how their organization was structured their policies procedures they wrote and the rules they imposed upon their employees This book may sound contradictory to many of the policies industries imposed and all I ask from the reader is to finish reading this book so that the reader can understand my reasons

behind the contradiction Industries hire me for one reason to tell them what is wrong with them on how they do maintenance and what can be done about it Why Operators are Important in the Reliability Strategy What Maintenance is all About Survey on Top Problems of Preventive Maintenance Revisited 2018 Why Preventive Maintenance cannot prevent ALL failures Why Safety cannot be First Operations and Maintenance Will the Feud Ever Stop Reducing Human Errors in Maintenance Why Operations and Maintenance Went their Own Separate Ways Understanding Human Errors The Common Thing RCM and TPM Both Believes Strengthening Operator and Maintenance Partnership Detailed Guidelines in Implementing 7 Steps of Autonomous Maintenance Tips in Implementing Autonomous Maintenance Detailed Guidelines in Implementing the 4 Phases of Planned Maintenance Tips in Implementing Planned Maintenance Why Do Most RCM Initiatives Fail Detailed Guidelines in Implementing RCM Analysis for Equipment Tips in Implementing the RCM Analysis Detailed Guidelines on How to Perform Root Cause Failure Analysis Probe Tips in Implementing Root Cause Failure Analysis Guidelines in Conducting Equipment FMEA FMECA Tips in Implementing FMEA FMECA Small Problems matters most The Biggest Missing Link in Any Reliability Strategy Changing the Image of the Maintenance Function It Will Definitely Take Time for Industries to Accept The Separation Needs to End and a Partnership Needs to Begin Managing Human Errors in Maintenance How to Strengthen Operators and Maintenance Partnership Tips and Guidelines in Implementing TPM Focused Improvement and many more In my cases operators remain switch flickers and are frequently provided with a job description to operate the equipment This book explains that operators are always the first line of defense on any equipment related failures and breakdowns since they are the closest people that will experience the failure first before maintenance Operators need to understand the earliest symptoms of failures One sentiment I often hear from maintenance is that if breakdowns happen simultaneously what they think is that they are undermanned I do not believe so The main reason for this mindset is simple operators are not involved in the shared responsibility of doing maintenance Operators are important in any reliability and maintenance strategy because operators are the first line of defense on any failure that can occur on the equipment since they are the people closest to the equipment when the failure occurs and not maintenance *Proceedings* Vibration Institute (Clarendon Hills, Ill.). Meeting,1995 **Reliability - A Shared Responsibility for Operators and Maintenance** Rolly Angeles,2020-06-07 Industries must learn to understand that reliability is always a shared responsibility for operators and maintenance For as long as these two remain as a separate function industries will continue to remain reactive Maintenance in Transition Paul D. Tomlinsong,2014-02-28 With world wide industrial maintenance management consulting experience spanning over 40 years Tomlinsong has created a classic textbook for achieving and sustaining World Class maintenance Logical realistic steps and case studies are clearly explained and illustrated for immediate application in the world of industrial maintenance management Page 4 of cover **Maintenance Engineering Handbook** Lindley R. Higgins,R. Keith Mobley,Ricky Smith,2002 MAINTENANCE ENGINEERING HANDBOOK Sixth Edition The latest science technology and management

solutions for facility maintenance issues The one reference you can bank on for current answers to virtually any maintenance question Lindley R Higgins and R Keith Mobley s Maintenance Engineering Handbook provides the best of today s strategies and technologies from the world s leading experts One stop source of answers on all maintenance engineering functions from managing planning and budgeting to solving environmental problems New coverage of the latest computer applications maintenance technologies and tools Strategies equipment techniques and tips for facilities from industrial plants to residential complexes institutions schools hospitals and office buildings NEW IN THIS EDITION Technology updates Improvements in prevention and prediction Equipment testing and monitoring tools The latest computer programs Advances in maintenance economics Guidance on insurance administration New maintenance techniques for centrifugal air compressors centrifugal pumps and other equipment Maintenance Engineering s Most Current Comprehensive and Complete Reference A McGraw Hill Classic 55 SPECIALISTS Buildings and grounds Computer applications Corrosion and cleaning Costs and controls Electrical equipment Estimates and budgets Instrumentation and monitoring tools Inventory Lubrication Measuring servicing testing Mechanical equipment Organization and management Parts and components Personnel and policies Practices and prevention Sanitation and housekeeping Specialized equipment Welding

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