

# Maintenance Scorecard

| Measurement         | Goal      | Actual    |
|---------------------|-----------|-----------|
| Backlog Weeks       | 4-6 weeks | 5.5 weeks |
| Overtime Hours      | <8%       | 5%        |
| Downtime            | <5%       | 4.3%      |
| PM Man-hours        | >40%      | 45.6%     |
| Late PM's           | <1%       | 0.5%      |
| Scheduled Man-hours | >55%      | 58%       |
| Schedule Compliance | >95%      | 88%       |
| Planned Man-hours   | >80%      | 86%       |
| Breakdown Man-hours | <10%      | 12.5%     |

# Maintenance Scorecard

**Anthony Kelly**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name bar.

## **Maintenance Scorecard:**

The Maintenance Scorecard Daryl Mather, 2005 Performance measurement in maintenance is a key ingredient when an organization is seeking excellence in their maintenance practices Unquestionably a maintenance scorecard MSC consistent with corporate goals will be invaluable In this context I was pleased to see addresses in the very first Chapter not only comments on key ingredients of a MSC but also implementation issues associated with the use of a MSC There is so little written on the balanced scorecard BSC concept being applied to the maintenance function and as the first book focusing on the BSC in the context of maintenance termed by Mather the MSC it will be a welcome addition to the arsenal of literature available to ensure superior maintenance performance in an organizations Andrew K S Jardine PhD C Eng P Eng Professor Department of Mechanical Industrial Engineering University of Toronto The Maintenance Scorecard is an important work in the field of maintenance management It is important because it weaves together several disparate threads into an insightful and useful whole Implementation of the ideas presented in The Maintenance Scorecard could focus attention of both top management and maintenance leadership to meaningful improvements Joel Levitt President Springfield Resources It is so refreshing to hear someone whom truly knows what he is talking about rather than the theory merchants that tend to saturate our discipline Greg Pantaleoni Director Effective Systems Solutions Pty Ltd This is the first book to seriously tackle the subject of bringing Asset Management into line with other areas of corporate activity Through a unique adaptation of the balanced scorecard approach to asset management it provides a structured approach for both the development of strategy and its implementation Additionally readers will find a catalogue of indicators along with their uses and weaknesses a definitive guide to measuring the success of RCM programs and a logical format that leads them from start to finish with information and hints on each phase of the maintenance scorecard approach If you or your company need to manage physical assets you need this book Provides the RCM Scorecard which is unique to this book and has not been done previously to this level of detail Includes information and hints on each phase of the maintenance scorecard approach Focuses at length on the creation of strategy for asset management and details the differences between various industry types sectors and markets Offers an introduction to the methodology of Problem Elimination Logic and its application and use in the industry Contains a brief overview of the Technical Change Management System a method for increasing the effectiveness of capital spending in maintenance Provides a guide to some of the true uses and limitations of benchmarking as a strategic tool for improvement Uses many illustrations throughout to explain and underline the concepts being presented

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BSC concept being applied to the maintenance function and as the first book focusing on the BSC in the context of maintenance termed by Mather the MSC it will be a welcome addition to the arsenal of literature available to ensure superior maintenance performance in an organizations Andrew K S Jardine PhD C Eng P Eng Professor Department of Mechanical Industrial Engineering University of Toronto The Maintenance Scorecard is an important work in the field of maintenance management It is important because it weaves together several disparate threads into an insightful and useful whole Implementation of the ideas presented in The Maintenance Scorecard could focus attention of both top management and maintenance leadership to meaningful improvements Joel Levitt President Springfield Resources It is so refreshing to hear someone whom truly knows what he is talking about rather than the theory merchants that tend to saturate our discipline Greg Pantaleoni Director Effective Systems Solutions Pty Ltd This is the first book to seriously tackle the subject of bringing Asset Management into line with other areas of corporate activity Through a unique adaptation of the balanced scorecard approach to asset management it provides a structured approach for both the development of strategy and its implementation Additionally readers will find a catalogue of indicators along with their uses and weaknesses a definitive guide to measuring the success of RCM programs and a logical format that leads them from start to finish with information and hints on each phase of the maintenance scorecard approach If you or your company need to manage physical assets you need this book Provides the RCM Scorecard which is unique to this book and has not been done previously to this level of detail Includes information and hints on each phase of the maintenance scorecard approach Focuses at length on the creation of strategy for asset management and details the differences between various industry types sectors and markets Offers an introduction to the methodology of Problem Elimination Logic and its application and use in the industry Contains a brief overview of the Technical Change Management System a method for increasing the effectiveness of capital spending in maintenance Provides a guide to some of the true uses and limitations of benchmarking as a strategic tool for improvement Uses many illustrations throughout to explain and underline the concepts being presented

**The Maintenance Management Framework** Adolfo Crespo Márquez, 2007-06-10 The Maintenance Management Framework describes and reviews the concept process and framework of modern maintenance management of complex systems concentrating specifically on modern modelling tools deterministic and empirical for maintenance planning and scheduling It presents a new perspective of maintenance management by focusing on the course of maintenance actions presenting a structure that ensures proper support for current maintenance managers clarifying the functionality that is required from information technology when applied to maintenance and the functions of modern maintenance engineering and creating a set of practical models for maintenance management planning and scheduling The discussion of all of these issues is supported through the use of case studies The Maintenance Management Framework will be beneficial for engineers and professionals involved in maintenance management maintenance engineering operations management quality etc It will also be of interest

to graduate students and researchers in this field      **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      *The Maintenance Scorecard - Ebook And Print Book Combo* Daryl Mather,2005 This is the Book and CD combination version of this book Performance measurement in maintenance is a key ingredient when an organization is seeking excellence in their maintenance practices Unquestionably a maintenance scorecard MSC consistent with corporate goals will be invaluable In this context I was pleased to see addresses in the very first Chapter not only comments on key ingredients of a MSC but also implementation issues associated with the use of a MSC There is so little written on the balanced scorecard BSC concept being applied to the maintenance function and as the first book focusing on the BSC in the context of maintenance termed by Mather the MSC it will be a welcome addition to the arsenal of literature available to ensure superior maintenance performance in an organizations Andrew K S Jardine PhD C Eng P Eng Professor Department of Mechanical Industrial Engineering University of Toronto The Maintenance Scorecard is an important work in the field of maintenance management It is important because it weaves together several disparate threads into an insightful and useful whole Implementation of the ideas presented in The Maintenance Scorecard could focus attention of both top management and maintenance leadership to meaningful improvements Joel Levitt President Springfield Resources It is so refreshing to hear someone whom truly knows what he is talking about rather than the theory merchants that tend to saturate our discipline Greg Pantaleoni Director Effective Systems Solutions Pty Ltd This is the first book to seriously tackle the subject of bringing Asset Management into line with other areas of corporate activity Through a unique adaptation of the balanced scorecard approach to asset management it provides a structured approach for both the development of strategy and its implementation Additionally readers will find a catalogue of indicators along with their uses and weaknesses a definitive guide to measuring the success of RCM programs and a logical format that leads them from start to finish with information and hints on each phase of the maintenance scorecard approach If you or your company need to manage physical assets you need this book

*Developing Performance Indicators for Managing Maintenance* Terry Wireman,2005 This unique reference utilizes techniques based on other management measurement systems such as the balanced scorecard It also presents a maturing of measurement technique for maintenance and asset maintenance and development techniques allowing companies to be competitive into the future      Asset Management Telli Van der Lei,Paulien Herder,Ype Wijnia,2012-01-12 In the past decades asset intensive companies have witnessed a number of regulatory changes and especially industry is facing ever

increasing competitiveness To overcome these challenges different asset management methods have been developed aimed to improve the asset life cycle Especially the design phase and operation and maintenance phase have seen a rise in tools and methods Smarter design can lead to improved operation Likewise improved operation and maintenance leads to lower replacement costs and may provide the basis for better design This book brings together and coherently presents the current state of the art in asset management research and practice in Europe from a life cycle perspective Each chapter focuses on specific parts of this life cycle and explains how the methods and techniques described are connected and how they improve the asset life cycle thus treating this important subject from a unique perspective Engineering Asset Management

Dimitris Kiritsis,Christos Emmanouilidis,Andy Koronios,Joseph Mathew,2011-02-03 Engineering Asset Management discusses state of the art trends and developments in the emerging field of engineering asset management as presented at the Fourth World Congress on Engineering Asset Management WCEAM It is an excellent reference for practitioners researchers and students in the multidisciplinary field of asset management covering such topics as asset condition monitoring and intelligent maintenance asset data warehousing data mining and fusion asset performance and level of service models design and life cycle integrity of physical assets deterioration and preservation models for assets education and training in asset management engineering standards in asset management fault diagnosis and prognostics financial analysis methods for physical assets human dimensions in integrated asset management information quality management information systems and knowledge management intelligent sensors and devices maintenance strategies in asset management optimisation decisions in asset management risk management in asset management strategic asset management and sustainability in asset management **Maintenance Systems and Documentation** Anthony Kelly,2006-07-10 Managing Systems and

Documentation addresses the main systems necessary for the successful operation of a maintenance organization such as performance control work control and documentation It shows how they can be modelled their function and operating principles and the main problems encountered in operation It is the third of three stand alone companion books with the aim of providing better understanding of maintenance operations in order to identify problems and prescribe effective solutions This is one of three stand alone volumes designed to provide maintenance professionals in any sector with a better understanding of maintenance management enabling the identification of problems and the delivery of effective solutions The third of three stand alone companion books focusing on the main systems necessary for the successful operation of a maintenance organization Covers the maintenance of plant production and operations assets in industry and service sectors including manufacturing food and process engineering minerals and mining transport power and IT Includes review questions exercises and case studies Clearly specified objectives and learning outcomes are given for each chapter including a route map to link each chapter to the rest of the topics covered Maintenance Parts Management Excellence Don M. Barry,2023-02-22 Most successful organizations recognize Maintenance Parts and Procurement as a critical success factor to

Asset Management Excellence and their fundamental supply chain value proposition This book works as a guide to all the stakeholders that influence the success of their Maintenance Parts Operation and their enterprise s bottom line Maintenance Parts Management Excellence A Holistic Anatomy defines the Maintenance Parts Managements role in Asset Management Excellence and expands on the importance of the Parts Inventory Planner role in an organization It discusses how to create a unique Maintenance Parts Management Strategy for an organization and offers insights on the multiple strategies needed to create and maintain a Maintenance Parts inventory policy The book also provides an organized overall approach to creating Maintenance Parts Management Excellence in an enterprise Executives with an organization responsible for the construction management and disposal of all assets classes plant equipment IT assets consultants responsible for assignments associated with optimizing life cycle decisions for clients maintenance and reliability professionals within an organization will benefit from this professional plus book Upper level undergraduate engineering students as well as graduate students of management who focus on operations management and engineering graduate students addressing issues of maintenance and reliability engineering may also be interested in this book

**Root Cause Analysis** Robert J. Latino, Mark A. Latino, Kenneth Latino, Kenneth C. Latino, 2006-05-05 There is no easy answer to the question What is RCA Some will give a general idea of what Root Cause Analysis RCA is designed to accomplish while others will advocate a specific approach In this third edition of the best selling Root Cause Analysis Improving Performance for Bottom Line Results acclaimed experts Robert and Ke

*Uptime* John D. Campbell, James V. Reyes-Picknell, Hyung Sik Kim, 2015-08-18 Uptime describes the combination of activities that deliver fewer breakdowns improved productive capacity lower costs and better environmental performance The bestselling second edition of Uptime has been used as a textbook on maintenance management in several postsecondary institutions and by many companies as the model framework for their mai

*Sustainability Appraisal: Quantitative Methods and Mathematical Techniques for Environmental Performance Evaluation* Marina G Erechtkoukova, Peter A Khaiter, Paulina Golinska, 2013-03-14 One of the most important issues in developing sustainable management strategies and incorporating ecodesigns in production manufacturing and operations management is the assessment of the sustainability of business operations and organizations overall environmental performance The book presents the results of recent studies on sustainability assessment It provides a solid reference for researchers in academia and industrial practitioners on the state of the art in sustainability appraisal including the development and application of sustainability indices quantitative methods models and frameworks for the evaluation of current and future welfare outcomes recommendations on data collection and processing for the evaluation of organizations environmental performance and eco efficiency approaches leading to business process re engineering

*Cases on Optimizing the Asset Management Process* González-Prida, Vicente, Márquez, Carlos Alberto Parra, Márquez, Adolfo Crespo, 2021-10-15 It is critical to improve the asset management system implementation as well as economics and industrial decision making to ensure that a business may move smoothly internally Maintenance

management should be aligned to the activities of maintenance in accordance with key business strategies which must be designed under the comprehensive approach of an asset management process After transforming the priorities of the business into priorities of maintenance maintenance managers will use their medium term strategies to tackle potential weaknesses in the maintenance of the equipment in accordance with these objectives Cases on Optimizing the Asset Management Process explains and summarizes the processes and the reference frame necessary for the implementation of the Maintenance Management Model MMM This book acts as an overview of the current state of the art in asset management providing innovative tools and practices from the fourth industrial revolution Presenting topics like criticality analysis physical asset maintenance and unified modelling language this text is essential for industrial and manufacturing engineers plant supervisors academicians researchers advanced level students technology developers and managers who make decisions in this field

**Optimum Decision Making in Asset Management** Carnero, María Carmen, González-Prida, Vicente, 2016-08-24 Asset management is becoming increasingly important to an organization's strategy given its effects on cost production and quality No matter the sector important decisions are made based on techniques and theories that are thought to optimize results asset management models and techniques could help maximize effectiveness while reducing risk Optimum Decision Making in Asset Management posits that effective decision making can be augmented by asset management based on mathematical techniques and models Resolving the problems associated with minimizing uncertainty this publication outlines a myriad of methodologies procedures case studies and management tools that can help any organization achieve world class maintenance This book is ideal for managers manufacturing engineers programmers academics and advanced management students

Sustainable Maintenance Strategies for Government Office Buildings in Emerging Economies Khotso Dithebe, Clinton Ohis Aigbavboa, Wellington Didibhuku Thwala, Bhaven Naik, 2025-07-24 Sustainable Maintenance Strategies for Government Office Buildings in Emerging Economies provides an unambiguous perspective on the practice requirements of maintenance management for public office buildings

Maintenance Costs and Life Cycle Cost Analysis Diego Galar, Peter Sandborn, Uday Kumar, 2017-09-18 Authors have attempted to create coherent chapters and sections on how the fundamentals of maintenance cost should be organized to present them in a logical and sequential order Necessarily the text starts with importance of maintenance function in the organization and moves to life cycle cost LCC considerations followed by the budgeting constraints In the process they have intentionally postponed the discussion about intangible costs and downtime costs later on in the book mainly due to the controversial part of it when arguing with managers The book will be concluding with a short description of a number of sectors where maintenance cost is of critical importance The goal is to train the readers for a deeper study and understanding of these elements for decision making in maintenance more specifically in the context of asset management This book is intended for managers engineers researchers and practitioners directly or indirectly involved in the area of



maintenance The book is focused to contribute towards better understanding of maintenance cost and use of this knowledge to improve the maintenance process Key Features Emphasis on maintenance cost and life cycle cost especially under uncertainty Systematic approach of how cost models can be applied and used in the maintenance field Compiles and reviews existing maintenance cost models Consequential and direct costs considered Comparison of maintenance costs in different sectors infrastructure manufacturing transport      Information Technology Evaluation Methods and Management Van Grembergen, Wim,2000-07-01 The evaluation of information technology and its business value are the subjects of many academic and business discussions Investments in IT are growing extensively and business managers worry whether the benefits derived might not be as high as expected This phenomenon is often called the IT investment paradox or the IT Black Hole large sums of money are invested in IT that seem to be swallowed by a large black hole without rendering much return How to measure the benefits of IT is the concern of Technology Evaluation Methods and Management Different IT evaluation approaches and methods are discussed and illustrated with cases traditional financial evaluations such as the return on investment information economics and the recently introduced IT Balanced Scorecard The latter approach is proposed as an ideal mechanism to support the IT business alignment process and its related IT governance process      Root Cause Analysis Mark A. Latino,Robert J. Latino,Kenneth C. Latino,2019-07-12 This book comprehensively outlines what a holistic and effective Root Cause Analysis RCA system looks like From the designing of the support infrastructure to the measuring of effectiveness on the bottom line this book provides the blueprint for making it happen While traditionally RCA is viewed as a reactive tool the authors will show how it can be applied proactively to prevent failures from occurring in the first place RCA is a key element of any successful Reliability Engineering initiative Such initiatives are comprised of equipment process and human reliability foundations Human reliability is critical to the success of a true RCA approach This book explores the anatomy of a failure undesirable outcome as well as a potential failure high risks Virtually all failures are triggered by errors of omission or commission by human beings The methodologies described in this book are applicable to any industry because the focus is on the human being s ability to think through why things go wrong not on the industry or the nature of the failure This book correlates reliability to safety as well as human performance improvement efforts The author has provided a healthy balance between theory and practical application wrapping up with case studies demonstrating bottom line results Features Outlines in detail every aspect of an effective RCA system Displays appreciation for the role of understanding the physics of a failure as well as the human and system s contribution Demonstrates the role of RCA in a comprehensive Asset Performance Management APM system Explores the correlation between Reliability Engineering and safety Integrates the concepts of Human Performance Improvement Learning Teams and Human Error Reduction approaches into RCA      Condition Monitoring and Diagnostic Engineering Management A. Starr,B.K.N. Rao,2001-09-14 This Proceedings contains the papers presented at the 14th International Conference on Condition Monitoring and Diagnostic Engineering

Management COMADEM 2001 held in Manchester UK on 4 6 September 2001 COMADEM 2001 builds on the excellent reputation of previous conferences in this series and is essential for anyone working in the field of condition monitoring and maintenance management The scope of the conference is truly interdisciplinary The Proceedings contains papers from six continents written by experts in industry and academia the world over bringing together the latest thoughts on topics including Condition based maintenance Reliability centred maintenance Asset management Industrial case studies Fault detection and diagnosis Prognostics Non destructive evaluation Integrated diagnostics Vibration Oil and debris analysis Tribology Thermal techniques Risk assessment Structural health monitoring Sensor technology Advanced signal processing Neural networks Multivariate statistics Data compression and fusion This Proceedings also contains a wealth of industrial case studies and the latest developments in education training and certification For more information on COMADEM s aims and scope please visit <http://www.comadem.com>

## The Enigmatic Realm of **Maintenance Scorecard**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Maintenance Scorecard** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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