# **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**

Dimitris Kiritsis, Christos Emmanouilidis, Andy Koronios, Joseph Mathew

#### **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 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

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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 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 **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

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 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 Root Cause Analysis Mark A. Latino, Robert J. Latino, Kenneth Latino, 2016-04-19 What is RCA It seems like in this field such an easy question to answer yet from novices to veterans and practitioners to providers no one seems to have come to agreement or consensus on an acceptable definition for the industry Now in its fourth edition Root Cause Analysis Improving Performance for Bottom Line Results discusses why it is so hard to get su **Uptime** John D. Campbell, James V. Reves-Picknell, 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 <u>Developing Performance Indicators for Managing Maintenance</u> 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 *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

The IT Service Part 2 - The Handbook Pierre Bernard, 1970-01-01 Since the early 2000s numerous external scenarios and drivers have added significant pressures upon the IT organisations Among many these include Regulatory compliance data privacy requirements and corporate scandals have focused a requirement for transparency with high impact on IT organisations Economic pressures require IT organisations to more closely align with business imperatives The outcome has been an explosion of standards and frameworks each designed to support the IT organisation as it demonstrates to the world that they are the rock of an organisation strong reliable effective and efficient Most of these standards and frameworks have great elements but no organisation can adopt them all and many were created without sufficient considerations for interoperability The IT Service in 2 parts looks at the key and very simple goals of an IT organisation and clearly and succinctly presents to the reader the best rock solid elements in the Industry It then shows how all the key elements can easily crystallise together with great templates and check lists In Part 1 another book the reader is presented with the simple objectives that the IT department really must address In Part 2 this book the reader gains expert advice on how the components of IT Service are crystallised in a real environment There's a delightfully simple set of steps OVERVIEW OF THE SERVICE DESIGN PACKAGETHE SERVICE STRATEGYASPECTS OF SERVICE DESIGNOUTPUTS OF THE SERVICE DESIGN PHASEOUTPUTS OF THE SERVICE TRANSITION PHASEOUTPUTS OF THE SERVICE OPERATION PHASEWithin these the Author gives a very simple set of templates or tells you where they are to be found practical guidance and very simple checklists It's up the reader how far you develop each stage a lot depends on the nature of your business of course The joy of this approach is that the reader knows that all basic components are identified and that more extensive resources are referred to if the reader wishes to extend Maintenance Management in Network Utilities Juan F Gómez Fernández, Adolfo Crespo Márquez, 2012-02-19 In order to satisfy the needs of their customers network utilities require specially developed maintenance management capabilities Maintenance Management information systems are essential to ensure control gain knowledge and improve decision making in companies dealing with network infrastructure such as distribution of gas water electricity and telecommunications Maintenance Management in Network Utilities studies specified characteristics of maintenance management in this sector to offer a practical approach to defining and implementing the best management practices and suitable frameworks Divided into three major sections Maintenance Management in Network Utilities defines a series of stages which can be followed to manage maintenance frameworks properly Different case studies provide detailed descriptions which illustrate the experience in real company situations An introduction to the concepts is followed by main

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Congress on Engineering Asset Management (WCEAM 2015) Kari T. Koskinen, Helena Kortelainen, Jussi Aaltonen, Teuvo Uusitalo, Kari Komonen, Joseph Mathew, Jouko Laitinen, 2016-03-25 This book comprises refereed papers from the 10th World Congress on Engineering Asset Management WCEAM 2015 held in Tampere Finland in September 2015 These proceedings include a compilation of state of the art papers covering a comprehensive range of subjects equally relevant to business managers and engineering professionals alike With a focus on various aspects of engineering asset management ranging from strategic level issues to detail level machine health issues these papers address both industry and public sector concerns and issues as well as advanced academic research Proceedings of the WCEAM 2015 is an excellent reference and resource for asset management practitioners researchers and academics as well as undergraduate and postgraduate students at tertiary institutions or in the industry **Safety and Reliability: Methodology and Applications** Tomasz Nowakowski, Marek Mlynczak, Anna Jodejko-Pietruczuk, Sylwia Werbinska-Wojciechowska, 2014-09-01 Within the last fifty years the performance requirements for technical objects and systems were supplemented with customer expectations quality abilities to prevent the loss of the object properties in operation time reliability and maintainability protection against the effects of undesirable events safety and security and the ability to **Handbook of Industrial and Systems Engineering, Second Edition** Adedeji B. Badiru, 2013-10-11 A new edition of a bestselling industrial and systems engineering reference Handbook of Industrial and Systems Engineering Second Edition provides students researchers and practitioners with easy access to a wide range of industrial engineering tools and techniques in a concise format This edition expands the breadth and depth of coverage emphasizing new systems engineering tools techniques and models See What s New in the Second Edition Section covering safety reliability and quality Section on operations research queuing logistics and scheduling Expanded appendix to include conversion factors and engineering systems and statistical formulae Topics such as control charts engineering economy health operational efficiency healthcare systems human systems integration Lean systems logistics transportation manufacturing systems material handling systems process view of work and Six Sigma techniques The premise of the handbook remains to expand the breadth and depth of coverage beyond the traditional handbooks on industrial engineering The book begins with a general introduction with specific reference to the origin of industrial engineering and the ties to the Industrial Revolution It covers the fundamentals of industrial engineering and the fundamentals of systems engineering Building on this foundation it presents chapters on manufacturing production systems and ergonomics then goes on to discuss economic and financial analysis management information engineering and decision making Two new sections examine safety reliability quality operations research queuing logistics and scheduling The book provides an updated collation of the body of knowledge of industrial and systems engineering The handbook has been substantively expanded from the 36 seminal chapters in the first edition to 56 landmark chapters in the second edition In addition to the 20 new chapters 11 of the chapters in the first edition have been updated with new materials Filling the gap

This book delves into Maintenance Scorecard. Maintenance Scorecard is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Maintenance Scorecard, encompassing both the fundamentals and more intricate discussions.

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  - Chapter 1: Introduction to Maintenance Scorecard
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  - Chapter 4: Maintenance Scorecard in Specific Contexts
  - ∘ Chapter 5: Conclusion
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- 5. In chapter 4, the author will scrutinize the relevance of Maintenance Scorecard in specific contexts. This chapter will explore how Maintenance Scorecard is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, the author will draw a conclusion about Maintenance Scorecard. The final chapter will summarize the key points that have been discussed throughout the book.
  - This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Maintenance Scorecard.

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#### **Table of Contents Maintenance Scorecard**

1. Understanding the eBook Maintenance Scorecard

- The Rise of Digital Reading Maintenance Scorecard
- Advantages of eBooks Over Traditional Books
- 2. Identifying Maintenance Scorecard
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Maintenance Scorecard
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Maintenance Scorecard
  - Personalized Recommendations
  - Maintenance Scorecard User Reviews and Ratings
  - Maintenance Scorecard and Bestseller Lists
- 5. Accessing Maintenance Scorecard Free and Paid eBooks
  - Maintenance Scorecard Public Domain eBooks
  - Maintenance Scorecard eBook Subscription Services
  - Maintenance Scorecard Budget-Friendly Options
- 6. Navigating Maintenance Scorecard eBook Formats
  - ePub, PDF, MOBI, and More
  - Maintenance Scorecard Compatibility with Devices
  - Maintenance Scorecard Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Maintenance Scorecard
  - Highlighting and Note-Taking Maintenance Scorecard
  - Interactive Elements Maintenance Scorecard
- 8. Staying Engaged with Maintenance Scorecard
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Maintenance Scorecard

- 9. Balancing eBooks and Physical Books Maintenance Scorecard
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maintenance Scorecard
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Maintenance Scorecard
  - Setting Reading Goals Maintenance Scorecard
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maintenance Scorecard
  - Fact-Checking eBook Content of Maintenance Scorecard
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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