

# 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

**Daryl Mather**

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

*The Maintenance Scorecard*  
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*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 in this field      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      **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 **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 **Root Cause Analysis** Mark A. Latino,Robert J. Latino,Kenneth C. Latino,2019-06-26 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 **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 Steel ,1952-07 PS, the Preventive Maintenance Monthly ,1962 The Preventive Maintenance Monthly is an official publication of the Army providing information for all soldiers assigned to combat and combat duties The magazine covers issues concerning maintenance maintenance procedures and supply problems *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 **Safety and Reliability of Complex Engineered Systems** Luca Podofillini,Bruno Sudret,Bozidar Stojadinovic,Enrico Zio,Wolfgang Kröger,2015-09-03 Safety and Reliability of Complex Engineered Systems contains the Proceedings of the 25th European Safety and Reliability Conference ESREL 2015 held 7 10 September 2015 in Zurich Switzerland Including 570 papers on theories and methods in the area of risk safety and reliability and their applications to a wide range of industrial civil and social sectors this book will be of interest to academics and professionals involved or interested in aspect of risk safety and reliability in various engineering areas 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>

*Military Publications* United States. Department of the Army,1978 Advances in Production Management Systems.

Artificial Intelligence for Sustainable and Resilient Production Systems Alexandre Dolgui, Alain Bernard, David Lemoine, Gregor von Cieminski, David Romero, 2021-09-01 The five volume set IFIP AICT 630 631 632 633 and 634 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems APMS 2021 held in Nantes France in September 2021. The 378 papers presented were carefully reviewed and selected from 529 submissions. They discuss artificial intelligence techniques, decision aid, and new and renewed paradigms for sustainable and resilient production systems at four wall factory and value chain levels. The papers are organized in the following topical sections: Part I: artificial intelligence based optimization techniques for demand driven manufacturing; hybrid approaches for production planning and scheduling; intelligent systems for manufacturing planning and control in the industry 4.0; learning and robust decision support systems for agile manufacturing environments; low code and model driven engineering for production system; metaheuristics and optimization techniques for energy oriented manufacturing systems; metaheuristics for production systems; modern analytics and new AI based smart techniques for replenishment and production planning under uncertainty; system identification for manufacturing control applications and the future of lean thinking and practice. Part II: digital transformation of SME manufacturers; the crucial role of standard digital transformations towards supply chain resiliency; engineering of smart product service systems of the future; lean and Six Sigma in services; healthcare new trends and challenges in reconfigurable flexible or agile production system; production management in food supply chains and sustainability in production planning and lot sizing. Part III: autonomous robots in delivery logistics; digital transformation approaches in production management; finance driven supply chain; gastronomic service system design; modern scheduling and applications in industry 4.0; recent advances in sustainable manufacturing; regular session: green production and circularity concepts; regular session: improvement models and methods for green and innovative systems; regular session: supply chain and routing management; regular session: robotics and human aspects; regular session: classification and data management methods; smart supply chain and production in society 5.0 era and supply chain risk management under coronavirus. Part IV: AI for resilience in global supply chain networks in the context of pandemic disruptions; blockchain in the operations and supply chain management; data based services as key enablers for smart products manufacturing and assembly; data driven methods for supply chain optimization; digital twins based on systems engineering and semantic modeling; digital twins in companies: first developments and future challenges; human centered artificial intelligence in smart manufacturing for the operator; 4.0 operations management in engineer to order manufacturing; product and asset life cycle management for smart and sustainable manufacturing systems; robotics technologies for control smart manufacturing and logistics; serious games analytics; improving games and learning support smart and sustainable production and supply chains; smart methods and techniques for sustainable supply chain management; the new digital lean manufacturing paradigm and the role of emerging technologies in disaster relief operations; lessons from COVID 19. Part V: data driven platforms and



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 Nor, 2022-01-24 This book covers most of the damage mechanism in the scope of mechanical engineering and civil  
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