



# 8 Maintenance KPIs to Track

## 1 Mean Time Between Failures (MTBF)

measures the average time equipment operates before a failure occurs

## 2 Mean Time to Repair (MTTR)

calculates the average time required to repair equipment

## 3 Planned Maintenance Percentage (PMP)

measures the proportion of planned maintenance hours versus total maintenance hours

## 4 Overall Equipment Effectiveness (OEE)

evaluates equipment utilization by combining availability, performance, and quality

## 5 Maintenance Backlog

total amount of pending maintenance work

## 6 Maintenance Cost per Unit of Production

measures total maintenance cost relative to the number of units produced

## 7 Emergency Maintenance Percentage

calculates the proportion of maintenance hours spent on emergency repairs versus total maintenance hours

## 8 Preventive Maintenance (PM) Compliance

measures the percentage of scheduled preventive maintenance tasks completed on time

# Maintenance Kpi Benchmarks

**Mohammed Hamed Ahmed Soliman**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Maintenance Kpi Benchmarks:**

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 and Reliability Best Practices Ramesh Gulati, Ricky Smith, 2009

*Rules of Thumb for Maintenance and Reliability Engineers* Ricky Smith, R. Keith Mobley, 2011-03-31 Rules of Thumb for Maintenance and Reliability Engineers will give the engineer the have to have information It will help instill knowledge on a daily basis to do his or her job and to maintain and assure reliable equipment to help reduce costs This book will be an easy reference for engineers and managers needing immediate solutions to everyday problems Most civil mechanical and electrical engineers will face issues relating to maintenance and reliability at some point in their jobs This will become their go to book Not an oversized handbook or a theoretical treatise but a handy collection of graphs charts calculations tables curves and explanations basic rules of thumb that any engineer working with equipment will need for basic maintenance and reliability of that equipment Access to quick information which will help in day to day and long term engineering solutions in reliability and maintenance Listing of short articles to help assist engineers in resolving problems they face Written by two of the top experts in the country

*Reliable Maintenance Planning, Estimating, and Scheduling* Ralph Peters, 2014-11-19 Written specifically for the oil and gas industry Reliable Maintenance Planning Estimating and Scheduling provides maintenance managers and engineers with the tools and techniques to create a manageable maintenance program that will save money and prevent costly facility shutdowns The ABCs of work identification planning prioritization scheduling and execution are explained The objective is to provide the capacity to identify select and apply maintenance interventions that assure an effective maintenance management while maximizing equipment performance value creation and opportune and effective decision making The book provides a pre and post self assessment that will allow for measure competency improvement Maintenance Managers and Engineers receive an expert guide for developing detailed actions including repairs alterations and preventative maintenance The nuts and bolts of the planning estimating and scheduling process for oil and gas facilities Step by step maintenance guide will provide long term results based operational services Case studies based on the oil and gas industry

**Maintenance Benchmarking and Best Practices** Ralph Peters, 2006-05-23 Over the past decade companies have redirected their maintenance operational focus from internal cost cutting to profit maximization This approach is referred to as profit centered maintenance Peters provides maintenance supervisors and managers with a benchmarking best practices road map called the Maintenance Operations Scoreboard The Scoreboard will allow maintenance managers to a determine and quantify benefits and savings b improve craft productivity and c define a strategy to improve efficiency and productivity These things are at the heart of a successful Profit Centered Maintenance organization The author devised Maintenance Operations Scoreboard is used to perform over 200 maintenance

evaluations in over 5 000 profit centered maintenance organizations For example at Honda of America it was used extensively to direct maintenance strategy It was later translated into Japanese for presentation to key Japanese executives Another excellent example is Boeing Commercial Aircraft Inc Boeing combined elements from this same Scoreboard with their company wide maintenance goals to develop The Boeing Scoreboard for Maintenance Excellence Over 60 facility maintenance work units at region group and team levels are evaluated at on site visits using the Scoreboard criteria

**Maintenance Strategy Optimization** Mohammed Hamed Ahmed Soliman, Most maintenance programs fail not because the technology is wrong but because the strategy is broken Maintenance Strategy Optimization is a practical step by step guide for maintenance managers engineers and reliability professionals who want to transform their maintenance from reactive firefighting to a world class data driven system This book bridges the gap between theory and practice showing you how to integrate TPM RCM and predictive maintenance into one coherent strategy that reduces downtime lowers costs and improves asset reliability Packed with real world examples tools and implementation roadmaps it s your blueprint for building a high performance maintenance program no matter your industry *Handbook of Research on Data Science for Effective Healthcare Practice and Administration* Noughabi, Elham Akhond Zadeh, Raahemi, Bijan, Albadvi, Amir, Far, Behrouz H., 2017-07-20 Data science has always been an effective way of extracting knowledge and insights from information in various forms One industry that can utilize the benefits from the advances in data science is the healthcare field The Handbook of Research on Data Science for Effective Healthcare Practice and Administration is a critical reference source that overviews the state of data analysis as it relates to current practices in the health sciences field Covering innovative topics such as linear programming simulation modeling network theory and predictive analytics this publication is recommended for all healthcare professionals graduate students engineers and researchers that are seeking to expand their knowledge of efficient techniques for information analysis in the healthcare professions *Handbook of Maintenance Management and Engineering* Mohamed Ben-Daya, Salih O. Duffuaa, Abdul Raouf, Jezdimir Knezevic, Daoud Ait-Kadi, 2009-07-30 To be able to compete successfully both at national and international levels production systems and equipment must perform at levels not even thinkable a decade ago Requirements for increased product quality reduced throughput time and enhanced operating effectiveness within a rapidly changing customer demand environment continue to demand a high maintenance performance In some cases maintenance is required to increase operational effectiveness and revenues and customer satisfaction while reducing capital operating and support costs This may be the largest challenge facing production enterprises these days For this maintenance strategy is required to be aligned with the production logistics and also to keep updated with the current best practices Maintenance has become a multidisciplinary activity and one may come across situations in which maintenance is the responsibility of people whose training is not engineering This handbook aims to assist at different levels of understanding whether the manager is an engineer a production manager an experienced

maintenance practitioner or a beginner Topics selected to be included in this handbook cover a wide range of issues in the area of maintenance management and engineering to cater for all those interested in maintenance whether practitioners or researchers This handbook is divided into 6 parts and contains 26 chapters covering a wide range of topics related to maintenance management and engineering

**Certified Professional Maintenance Manager Review Pack** Monte Anderson, CHFM, CPE, CPMM, Larry K. Beck, Principal, Lane Pierce, CPE, CPMM, Jim Taylor, CPE, CPMM, Robert M. Williamson, CPMM, Wayne P. Saya, CPE, CPMM, Stephen W. Nicholas, CAFS, Dennis M. Hydrick, CPE, CPMM, Joel Levitt, CPMM, CRL, Larry G. DeVries, CPMM, Darren Eskin, CPMM, Tim Trout, CPMM, Terry Wireman, CPMM, Larry Ross, P.E., CPE, Edward F. Gagnon, CEA, CEM, CPE, CPMM, CPS, Kenneth Walker, CPMM, CPS, Larson Wood, CPMM, Rene Hernandez, CPMM, CPS, Stephen Brown, CPE, 2020-01-22 Both plant facilities maintenance professionals and property management executives must confront a wide variety of complex issues Therefore they must possess an extensive knowledge of the many facets of maintenance management Earning the Certified Professional Maintenance Manager credential will indicate to both your employer and industry officials that you possess in depth expertise in plant and facilities maintenance management The CPMM program is updated annually to keep it on the cutting edge of techniques and technologies in maintenance management

**Complex System Maintenance Handbook** Khairy Ahmed Helmy Kobbacy, D. N. Prabhakar Murthy, 2008-04-18 This utterly comprehensive work is thought to be the first to integrate the literature on the physics of the failure of complex systems such as hospitals banks and transport networks It has chapters on particular aspects of maintenance written by internationally renowned researchers and practitioners This book will interest maintenance engineers and managers in industry as well as researchers and graduate students in maintenance industrial engineering and applied mathematics

Leadership Skills for Maintenance Supervisors and Managers Joel D. Levitt, 2020-12-22 Supervision is a leveraged activity When we develop the supervisor's skills we enhance the productivity of the whole workgroup This book provides valuable skill training for supervisors team leaders and managers It offers techniques to improve reliability that can be accomplished at the supervisor level It teaches both the science and the art of the supervision of maintenance workers discusses managing meetings and time the elements of technical issues and presents management and people skills offering maximum productivity and high quality provision of services and at the same time improving morale throughout the workforce This book is suitable for all types of maintenance for organizations with supervisors and managers from plant operations storeroom construction and related areas including industrial organizations construction companies mines fleets building maintenance janitorial maintenance contractors and vocational tech schools teaching maintenance short courses

Lubrication and Maintenance of Industrial Machinery Robert M. Gresham, George E. Totten, 2008-10-24 A Z Guide for Maximum Cost Reduction and Increased Equipment Reliability To remain globally competitive today's manufacturing operations have greatly improved but there is one last link in the advancement evolution The reliability of manufacturing

equipment must be improved in order to maximize the productive life of the equipment eliminate uns **Frontiers of Performability Engineering** Durga Rao Karanki, 2024-03-23 This book presents recent advances in performability analysis methods and their applications in different fields It covers various aspects of performability such as quality reliability maintainability availability safety security and sustainability that are essential in complex engineering systems such as electrical grids chemical plants naval defense systems structures nuclear reactors railways etc This book is a collection of research works contributed by the former students of Professor KB Mishra who is a renowned researcher in reliability engineering This book is useful for the researchers and professionals working in the area of performability engineering

**Hospital Asset Maintenance Engineering for the Next Century** José Manuel Torres Farinha, 2025-09-18 Hospital Asset Maintenance Engineering for the Next Century offers a cutting edge perspective on the management of physical assets within hospitals incorporating life cycle assessment support models applicable to various types of assets This book provides a comprehensive overview of hospital physical assets addressing aspects such as asset maintenance metrology cross infection control spare parts management logistics and adherence to international standards all framed within a lean approach to holistic medicine practiced in healthcare settings It also delves into the convergence of future hospital concepts including a biophilic design approach with the latest advancements in engineering maintenance and life cycle assessment methodologies This book will be an asset for hospital engineers facility managers professionals students and researchers involved in healthcare infrastructure and maintenance

**Maintenance, Safety, Risk, Management and Life-Cycle Performance of Bridges** Nigel Powers, Dan M. Frangopol, Riadh Al-Mahaidi, Colin Caprani, 2018-07-04 Maintenance Safety Risk Management and Life Cycle Performance of Bridges contains lectures and papers presented at the Ninth International Conference on Bridge Maintenance Safety and Management IABMAS 2018 held in Melbourne Australia 9-13 July 2018 This volume consists of a book of extended abstracts and a USB card containing the full papers of 393 contributions presented at IABMAS 2018 including the T Y Lin Lecture 10 Keynote Lectures and 382 technical papers from 40 countries The contributions presented at IABMAS 2018 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of bridge maintenance safety risk management and life cycle performance Major topics include new design methods bridge codes heavy vehicle and load models bridge management systems prediction of future traffic models service life prediction residual service life sustainability and life cycle assessments maintenance strategies bridge diagnostics health monitoring non destructive testing field testing safety and serviceability assessment and evaluation damage identification deterioration modelling repair and retrofitting strategies bridge reliability fatigue and corrosion extreme loads advanced experimental simulations and advanced computer simulations among others This volume provides both an up to date overview of the field of bridge engineering and significant contributions to the process of more rational decision making on bridge maintenance safety risk management and life cycle performance of bridges for the

purpose of enhancing the welfare of society The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems including students researchers and engineers from all areas of bridge engineering

**Engineering Asset Management** Joseph Mathew, Lin Ma, Andy Tan, Deryk Anderson, 2008-02-06 It is with great pleasure that we welcome you to the inaugural World Congress on Engineering Asset Management WCEAM being held at the Conrad Jupiters Hotel on the Gold Coast from July 11 to 14 2006 More than 170 authors from 28 countries have contributed over 160 papers to be presented over the first three days of the conference Day four will be host to a series of workshops devoted to the practice of various aspects of Engineering Asset Management WCEAM is a new annual global forum on the various multidisciplinary aspects of Engineering Asset Management It deals with the presentation and publication of outputs of research and development activities as well as the application of knowledge in the practical aspects of strategic asset management risk management in asset management design and life cycle integrity of physical assets asset performance and level of service models financial analysis methods for physical assets reliability modelling and prognostics information systems and knowledge management asset data management warehousing and mining condition monitoring and intelligent maintenance intelligent sensors and devices regulations and standards in asset management human dimensions in integrated asset management education and training in asset management and performance management in asset management We have attracted academics practitioners and scientists from around the world to share their knowledge in this important emerging transdiscipline that impacts on almost every aspect of daily life

**Building Maintenance Management** Barrie Chanter, Peter Swallow, 2008-04-15 This new edition of an informative and accessible book guides building surveyors and facilities managers through the key aspects of property maintenance and continues to be of value to both students and practitioners With the increasing cost of new build effective maintenance of existing building stock is becoming ever more important and building maintenance work now represents nearly half of total construction output in the UK Building Maintenance Management provides a comprehensive profile of the many aspects of property maintenance This second edition has been updated throughout with sections on outsourcing maintenance planning benchmarking and KPIs and current trends in procurement routes including partnering and the growth of PFI integrated into the text There is also a new chapter on the changing context within which maintenance is carried out largely concerned with its relationship to facilities management More coverage is given of maintenance organisations and there are major updates to relevant aspects of health and safety and to contract forms

**Asset Maintenance Management in Industry** Rama Srinivasan Velmurugan, Tarun Dhingra, 2021-05-27 This book introduces readers to essential strategies practices and benchmarking for asset maintenance in operations intensive industries Drawing on a case study from the oil and gas sector it offers a methodology and practical solutions to help maintenance practitioners select and formulate an asset maintenance strategy and to establish best maintenance practices at an organizational level using the frameworks developed here It is intended for industry

practitioners young maintenance professionals and students of engineering management who aspire to a career in operations intensive industries

**Lean Maintenance** Mohammed Hamed Ahmed Soliman, 2025-08-08 Unlock the power of Lean thinking to transform your maintenance operations into a streamlined value driven system that delivers maximum uptime reduced costs and sustainable results Lean Maintenance is your comprehensive guide to applying Lean principles in the maintenance environment Whether you manage a manufacturing plant utilities network transport fleet or healthcare facility this book provides practical strategies tools and real world examples to help you Standardize and Simplify Develop clear repeatable maintenance procedures that eliminate waste and ensure consistency Visualize and Control Use visual management checklists and dashboards to make performance and priorities visible at a glance Continuously Improve Apply PDCA root cause analysis and kaizen events to tackle problems and embed a culture of ongoing improvement Plan and Schedule Smarter Implement Kanban systems Just in Time maintenance and proactive planning to minimize downtime Leverage Technology Integrate CMMS predictive analytics and IoT to make data driven decisions and anticipate equipment needs Lead the Change Engage your teams strengthen leadership practices and sustain Lean improvements over the long term Packed with step by step guidance industry case studies and future trends like Industry 4.0 integration Lean Maintenance is an indispensable resource for maintenance managers engineers reliability professionals and operations leaders who want to achieve operational excellence If your goal is to do more with less while improving reliability and safety this book shows you exactly how to get there

*Lean Maintenance* Ricky Smith, Bruce Hawkins, 2004-06-11 What is Lean Whether referring to manufacturing operations or maintenance lean is about doing more with less less effort less space fewer defects less throughput time lower volume requirements less capital for a given level of output etc The need to provide the customer more value with less waste is a necessity for any firm wanting to stay in business especially in today's increasingly global market place And this is what lean thinking is all about Lean Operations are difficult to sustain More Lean Manufacturing Plant Transformations have been abandoned than have achieved true Lean Enterprise status There are solid and recurring reasons for both of these conditions The most significant of these reasons is that production support processes have not been pre positioned or refined adequately to assist the manufacturing plant in making the lean transformation And the most significant of the support functions is the maintenance operation which determines production line equipment reliability Moving the maintenance operation well into its own lean transformation is a must do prerequisite for successful manufacturing plant or any process plant Lean Transformations This Handbook provides detailed step by step fully explained processes for each phase of Lean Maintenance implementation providing examples checklists and methodologies of a quantity detail and practicality that no previous publication has even approached It is required reading and a required reference for every plant and facility that is planning or even thinking of adopting Lean as their mode of operation A continuous improvement strategy using new lean principles Eliminate wasteful practices from your manufacturing or



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