

World Class Maintenance Management The 12 Disciplines

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AMIYA EATON

6th Discipline on World Class Maintenance, The 12 Disciplines National Academies Press
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 chemical processes, increasing the profitability of your plant * Save thousands of dollars a year on new equipment by keeping your existing equipment maintained using this revolutionary method

[Uptime IGI Global](#)

Reliability-Centered Maintenance provides valuable insights into current preventive maintenance practices and issues, while explaining how a transition from the current "preserve equipment" to "preserve function" mindset is the key ingredient in a maintenance optimization strategy. This book defines the four principal features of RCM and describes the nine essential steps to achieving a successful RCM program. There is an easy to follow example illustrating the Classical RCM systems analysis process using the water treatment system for a swimming pool. As well as the use of software in the system analysis process, making a specific recommendation on a software product to use. Additionally, this new edition possesses an appendix devoted to discussing an economic model that has been used successfully to decide the most cost effective use of maintenance. Top Level managers, engineers, and especially technicians who rely on PM programs in their plant operations can't afford to miss this inclusive guide to Reliability-Centered Maintenance. Includes detailed instructions for implementing and sustaining an RCM program for extremely cost effective manufacturing Presents seven real-world cross-industry RCM success case studies that have profited from this plan Provides essential information on how RCM focuses your maintenance organization to become a recognized "center for profit" Offers over 35 accumulated years of the authors' experiences in Lessons Learned for the proper use of RCM (and pitfalls to avoid)

Reduce Costs, Improve Quality, and Increase Market Share Industrial Press Inc.

The purpose of writing this book is for industries to realize that operators will also play a major role in maintenance and that maintenance can "never," escape the vicious cycle of being reactive if operators will not be involved with maintenance itself.

Maintenance Roadmap to Reliability Industrial Press Inc.

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.

Reliability-centered Maintenance Academic Press

There are cases where breakdowns and failures are not the primary cause of equipment downtime, especially in manufacturing industries. Although RCM is a popular strategy, still many manufacturing industries are not implementing this process and continue to remain stuck in their PM tasks. The main reason why I wrote this book is that doing RCM in a manufacturing plant is a bit different from doing RCM in oil and gas, power plants, and other similar plants because their equipment losses are different, although the process on how RCM is done will be the same. If you worked in a semi-conductor plant, breakdowns and failures are not the main issues, but minor-stoppages, changeover, or quality problems are. You must know the boundary between what RCM can address and what it cannot. RCM will address failures and breakdowns by proposing tasks; it is not designed to address every possible equipment loss. What I am saying is that failures are just a subset of the entire equipment losses. Suppose you have chronic quality problems caused by the equipment; RCM can address some of them, but not all, since Quality problems and defects are much broader than breakdown and failures. I have a detailed explanation of what particular losses RCM can and cannot address in Chapter 3.3.2 of this book. This book is written to help industries implementing RCM on their machines, equipment, and assets. Some of the highlights of this book includes: - 27 Frequently Asked Questions (FAQ) on RCM - 22 Tips on Implementing RCM- 15 Don'ts About RCM - Why the RCM Preparatory Stage is Important - Can RCM Address All Equipment Losses? - Actual Case Study on RCM - How to Integrate RCM into the TPM Process - Bonus: RCM Forms I used in Excell Format - The RCM and TPM Crossroads- - Strengthening the SAE JA1011 Criteria - Addressing MRO Spare Parts after Implementing RCM - How to Determine the Correct Interval for PM, PdM, FFT, and Switching Standby Components - MRO Decision Diagram on Whether to Stock or Not to Stock - Difference Between a Failure Mode and a Root Cause - Secondary Tasks for Doing On-Condition Tasks - Details in Writing the RCM Decision Worksheet Explained - Details in Writing the RCM Information Worksheet Explained - Details in performing Horizontal Replication for Similar Equipment with the Same Operating Context - Details in Conducting the RCM Audit - And more . . . In this book, I have explained two definitions of RCM, which is looking on the equipment side and the human side of doing it. Reliability-Centered maintenance is a process used to determine any physical asset's maintenance tasks, decisions, and requirements in its current or present operating context. It is also a process used to determine what must be done to ensure that any physical assets continue to do

whatever their users want them to do in their present operating context. On the human and softer definition, RCM is a way or process of capturing and extracting the knowledge, understanding, and wisdom of the most experienced people in the plant and transforming it into a living document and their legacy. In most cases, when these good old folks go away and retire for good, they bring everything they know to their grave, and the plant hires fresh employees with little or no experience and starts everything from the very beginning. We just want to put a stop to this never-ending cycle. I have also explained in this book how to implement RCM more successfully by restoring the equipment first. If the plant is implementing Total Productive Maintenance, the integration of these two methodologies is explained in detail in this book.

Essential Electronic Tools for Efficiency CRC Press

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.

An Introduction to Predictive Maintenance Elsevier

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.

Reliability - A Shared Responsibility for Operators and Maintenance Industrial Press Inc.

This book provides not only the formulas used for these maintenance indices but what it should include as these indicators are key in propelling if our maintenance efforts are in the right direction or not.

Problems and Solutions on MRO Spare Parts and Storeroom Industrial Press Inc.

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 [Handbook of Maintenance Management and Engineering](#) McGraw Hill Professional Completely reorganised and comprehensively rewritten for its second edition, this guide to reliability-centred maintenance develops techniques which are practised by over 250 affiliated organisations worldwide.

(2nd Discipline on World Class Maintenance Management Springer Science & Business Media

Devising optimal strategy for maintaining industrial plant can be a difficult task of daunting complexity. This book aims to provide the plant engineer with a comprehensive approach for tackling this problem, that is, for deciding maintenance objectives, formulating equipment life plans and plant maintenance schedules, and others.

[Cutting Edge Maintenance Management Strategies](#) Simon and Schuster

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.

[World Class Maintenance Management](#) Industrial Press Inc.

This book contains simple yet proven strategies on lubrication, greasing and oil contamination control that industries can adopt to reduce their lubrication costs, wastes, and downtime attributed to lubrication-related failures.

World Class Manufacturing Industrial Press Inc.

In his best-selling book Japanese Manufacturing Techniques, Richard J. Schonberger revolutionized American manufacturing theory and, more important, practice. In that breakthrough book, he revealed that Japanese manufacturing excellence was not culturally bound. Offering the first demystified explanation of the simple techniques that fueled Japan's industrial success, he demonstrated how the same methods could be put to work as effectively in U.S. plants.

[Characteristics for an Army Research, Development, and Engineering Organization](#) World Class Maintenance Management

Introduction Vision, Mission and Strategy Maintenance Basics Planning and Scheduling Parts, Materials and Tools Management Reliability Operational Reliability M&R Tools Performance Measure - Metrics Human Side of M&R Best Practices/Benchmarking Maintenance Excellence Appendices [Supplementary Series on World Class Maintenance Management - the 12 Disciplines](#) World Class Maintenance ManagementThe 12 DisciplinesThis 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.World Class Maintenance ManagementThis 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**

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 maintenance management programs. Following in the tradition of its bestselling predecessors, Uptime: Strategies for Excellence in Maintenance Management, Third Edition explains how to deal with increasingly complex technologies, such as mobile and cloud computing, to support maintenance departments and set the stage for compliance with international standards for asset management. This updated edition reflects a far broader and deeper wealth of experience and knowledge. In addition, it restructures its previous model of excellence slightly to align what must be done more closely with how to do it. The book provides a strategy for developing and executing improvement plans that work well with the new values prevalent in today's workforce. It also explains how you can use seemingly competing improvement tools to complement and enhance each other. This edition also highlights action you can take to compensate for the gradual loss of skills in the current workforce as "baby boomers" retire.

Leadership Skills for Maintenance Supervisors and Managers Independently Published
World Class Maintenance Management The 12 Disciplines

9th Discipline on World Class Maintenance Management CRC Press

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.

Lean Maintenance World Class Maintenance Management

Completely revised and updated, this new edition of a classic reference focuses on the financial approach to the subject methodology that produces quantifiable results allowing a TPM program to be sustainable. And while clarifying what TPM is and what it is not, it clearly presents the economic value of TPM and shows how to calculate the Return on Investment (ROI) that a company can expect. It is the perfect resource for anyone who is considering implementing TPM or looking for ways of improving their current process.

Maintenance Planning and Scheduling Handbook Elsevier

A culmination of 15 years of research, teaching, and consulting, this book shares the best practices, mistakes, victories, and essential steps for success which the author has gleaned from working with countless organizations. Unlike other books that only focus on the engineering issues (task lists) or management issues (CMMS), this in-depth resource is the first to give true emphasis to the four aspects of success in preventive maintenance systems--engineering, management, economic, and psychological -- thereby enabling readers to have a balanced view and understanding of what is happening in their organizations. Additionally, it blends concrete actionable steps and structures with the theory behind the steps.