

World Class Maintenance Management The 12 Disciplines

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. For over three decades, Terry Wireman has specialized in the improvement of maintenance and reliability. As an international expert in maintenance management, he has assisted hundreds of clients in North America, Europe and the Pacific Rim to improve their maintenance effectiveness. Through a new 10-volume Maintenance Strategy series, the author makes his expertise in the field accessible to industrial and facility organizations everywhere. 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

Access Free World Class Maintenance Management The 12 Disciplines

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

Access Free World Class Maintenance Management The 12 Disciplines

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

Access Free World Class Maintenance Management The 12 Disciplines

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.

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The industry-standard resource for maintenance planning and scheduling—thoroughly revised for the latest advances Written by a Certified Maintenance and Reliability Professional (CMRP) with more than three decades of experience, this resource provides proven planning and scheduling strategies that will take any maintenance organization to the next level of performance. The book resolves common industry frustration with planning and reduces the complexity of scheduling in addition to dealing with reactive maintenance. You will find coverage of estimating labor hours, setting the level of plan detail, creating practical weekly and daily schedules, kitting parts, and more, all designed to increase your workforce without hiring. Much of the text applies the timeless management principles of Dr. W. Edwards Deming and Dr. Peter F. Drucker. You will learn how you can do more proactive work when your hands are full of reactive work. Maintenance Planning and Scheduling Handbook, Fourth Edition, features more

Access Free World Class Maintenance Management The 12 Disciplines

new case studies showing real world successes, a new chapter on getting better storeroom support, major revisions that describe the best KPIs for planning, major additions to the issue of “selling” planning to gain support, revisions to make work order codes more useful, a new appendix on numerically auditing planning success, and a new appendix devoted entirely to selecting a great maintenance planner. Maintenance Planning and Scheduling Handbook, Fourth Edition covers:

- The business case for the benefit of planning
- Planning principles
- Scheduling principles
- Handling reactive maintenance
- Planning a work order
- Creating a weekly schedule
- Daily scheduling and supervision
- Parts and planners
- The computer CMMS in maintenance
- How planning works with PM, PdM, and projects
- Controlling planning: the best KPIs
- KPIs for planning and overall maintenance
- Shutdown, turnaround, overhaul, and outage management
- Selling, organizing, analyzing, and auditing planning

World Class Maintenance Management The 12 Disciplines

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

Access Free World Class Maintenance Management The 12 Disciplines

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)

Salient Features :

- Unique approach in projecting Maintenance Department as an expense saver department
- Comprehensive discussions for achieving Zero Breakdowns and 100% Reliability

Access Free World Class Maintenance Management The 12 Disciplines

Maintenance made simple - Easy to implement strategies abound within the text

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

Written by a Plant Manager and CMRP, Zero to Hero details an alternative to the traditional reliability deployment model for today's business leaders. Plant managers are expected to produce results that improve month over month;

consequently, a program with high upfront cost without short term results does not sell. By combining Lean Principles with Reliability Best Practices, Joe crafts a journey that produces rapid and sustainable results that engage the entire

organization from top to bottom. Designed for both the novice and industry leaders, this book details a plan centered around the understanding the culture of your plant, implementing best practices, and delivering quick tangible results. Future investment for continuing improvement becomes self-funded as a portion of the captured savings from quick wins and newfound organizational creditability.

In today's competitive marketplace, the flow of goods and services to customers must not be hindered by obstacles such as maintenance downtime. To stay on top, managers must implement strategies that keep operations performing at high levels. Uptime, 2nd Edition, is an updated and expanded version of the invaluable first edition and provides current insight into successful strategies for managers, maintenance, and non-maintenance professionals alike. Updates from the

Access Free World Class Maintenance Management The 12 Disciplines

first edition include current trends in technology, reliability maintenance improvements, and the challenges of finding qualified maintenance personnel due to an aging labor force. In addition, it gives a thorough review of what it takes to achieve excellence in maintenance - a key business process in any capital intensive industry. It treats this technical topic in a way that is easy to understand and links a variety of seemingly disparate and competing concepts into a single simple strategy. This new edition: Contains a single simple strategy depicted by a pyramid containing 10 components for world class maintenance, arrayed in a logical order. Draws on the expertise and observation of the authors as maintenance management consultants. Includes a number of updates to the original first edition, particularly in its discussion of computerized systems and support tools. Readers of this book will see many new examples that are more current and relevant to today's business environment.

Considering maintenance from a proactive, rather than reactive, perspective, Maintenance Excellence details the strategies, tools, and solutions for maximizing the productivity of physical assets—focusing on profitability potential. The editors address contemporary concerns, key terms, data requirements, critical methodologies, and essential mathematical needs. They present maintenance in a business context, review planning, measurement, feedback, and techniques related to cost, efficiency, and results, and summarize applications of tools and software from statistics and neural networks to cost-optimized models.

During the start of this year 2020, I have been thinking a lot about the need to right my fourth book on maintenance. What title should I give this book and why? What industries need today are Cutting-Edge Maintenance Management Strategies that can be explained in a straightforward and simple manner for industries that they can easily adopt. Today what every

Access Free World Class Maintenance Management The 12 Disciplines

industry need is a way on how to survive their competition and remain in business. I started drafting this book on March 16, 2020. We all know about this pandemic on covid 19, which have struck the whole world and affected so many businesses and industries in all countries globally. Many industries have been halted by this pandemic, and many jobs were lost as a result. Honestly speaking, I am not certain when this pandemic will end since as of this writing, the number of cases is increasing exponentially and vaccine is still unavailable. It is my hope that once everything goes back to normal, leaders in industries can learn from experience to manage the risks involved and sustain their assets more intelligently. When I first published my first book on World Class Maintenance Management the 12 Disciplines in 2009, I thought I have written everything there is to know in order to achieve a level of World-Class Maintenance Management. Through the years, what I learned so far is that having a World Class Maintenance is very different from achieving a World Class Reliability in the organization. There are also many developments and changes today in maintenance that we need to adopt. The reason for writing this book is not only for the readers to understand the new trends in maintenance, but also for them to understand the reason for using them. These strategies must be adopted by industries for their own advantage because in today's phase, the law of the jungle applies and that is, survive now or be left behind. Cutting-Edge Maintenance Management Strategies: This book also a sequel deals with the different cutting-edge maintenance strategies that must be adopted by industries in order for them to survive their competition. In industries today, the law of the jungle applies, survive of be left behind. Learn how these strategies can link together in building a solid maintenance structure in the plant. Finally understand Learn these cutting-edge maintenance strategies in helping build

Access Free World Class Maintenance Management The 12 Disciplines

the reliability culture for industries.

The subject of lubrication is very broad and is evolving continuously with new technologies and developments as time passed by. Some of the things that have been written and published are now by-gone and obsolete. While most maintenance and lubrications people I know are not educated properly on lubrication, most of their decision on which lubricant to use and when to change it is based most often from OEM recommendations. The purpose of writing this book on Lubrication Tactics for Industries Made simple is to provide the maintenance people and the lubricant users in industries an easy to understand and straightforward approach to lubrication that they can adapt easily in their plant. The costs of lubricants in any industry only tell us one side of the story since we are only talking about the cost of lubricants spent on the equipment. The much higher cost can be seen in the number of breakdowns and failures encountered daily caused by incorrect practices and myths on lubrication. The costs of failures attributed to lubrication is a minimum of 2 folds the costs of lubricants that you consumed in the equipment. This means that if you are a heavy user of lubrication, such as a mining industry whose cost of lubricants is 100,000 USD a month, multiply this by a minimum of two and that will be the costs of failures attributed to lubrication failures. Contamination is the main problem on lubrication and it has always been there in the equipment and it comes not only in solid form but in liquid and air (bubbles). The author believes that the more contamination present in lubricating oil, then the more chances that failures happen, not only in hydraulics but in all lubricating systems and what we can do about it. Whether your industry is a large consumer or not of lubricants, there are way too many problems experienced by maintenance people regarding lubrication. Here are some of the most common problems industries are experiencing right

Access Free World Class Maintenance Management The 12 Disciplines

now in today's operations. We have problems with bearing failures, oil leakage, lack of procedure, human errors of mixing lubricants, wrong or obsolete procedures on lubrication, spillages, over lubrication, under lubrication, abrasion, oil contamination problems, premature failures, improper storage of new lubricants, grease incompatibility issues, high lubrication costs, guesstimate on greasing interval, lack of knowledge, cost-cutting schemes on lubrication training, and you name it. I'm pretty sure there are more besides these lists. This book contains 12 chapters, and each chapter is summarized and intended to help industries find the key on how to manage their lubrication. Some of the highlights that is covered in this book includes the following: - Why There is No Lubrication Engineering Course in College?- Selecting the Correct Lubricating Oil for the Equipment- Can We Mixed Different Grades and Brands of SAE Engine Oil?- Grease Incompatibility Issue- Advantages of Synthetic Oil over Petroleum Oil- Frequently Asked Questions on Synthetic Oil- Different Viscosity Grades for Industrial Lubricants- Does Lubricating Oil Really Wear Out?- Six Myths About Lubrication- Ten Strategies to Adapt to Lubrication and Contamination Control- Why is the Study of Tribology Important to Industries?- Why Lubrication Failures Repeat Itself- Benefits of Oil Analysis- Why Do Oil Analysis Program Fail in Some Industries?- Tips in Conducting Oil Analysis- Lubrication Tactics on Lubricating Oil- Lubrication Tactics on Oil Contamination Control (Code)- Lubrication Tactics on Greasing- Steps on Adopting a Lubrication Strategy It is my hope that this book reached out to industries in search of improving their overall lubrication strategy and benefit from the process.

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.

Access Free World Class Maintenance Management The 12 Disciplines

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.

This 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 the day to day struggles in the life of a maintenance. What is interesting about the Author and his book is that even though he hails from the Philippines the problems, issues and struggles we face in maintenance is generic and can be felt by any industry from whatever place, race and culture. This book contains real life stories, struggles and actual experiences by the Author in his career in maintenance and currently as a Reliability and Maintenance

Access Free World Class Maintenance Management The 12 Disciplines

Consultant. The book is easy to absorb as it is structured into three parts which are the Basics, the Strategies and the Advance Disciplines. The Twelve Disciplines are grouped accordingly into these three parts. Maintenance often time seek for advance ways in dealing with their everyday problems and issues. The message of this book is simple and straightforward, that there is no better way to start by going back to the "Basics" and addressing these very small problems we have in our plant. Big problems, unplanned break-downs and catastrophic failures are just an accumulation of small problems that has always been ignored and mostly neglected in the first place. The Author strongly emphasize the importance operators play in addressing these basic equipment condition and is considered a partner with maintenance on this shared responsibility they have towards their equipment. It is very difficult or impossible for maintenance people to transcend from a reactive to a proactive mode if operators will not be involved along the way. When the Basics had been set and well established, then maintenance can move on with the different maintenance and reliability strategies which are explained in detail on this book. Each Chapter covers a specific maintenance discipline. Chapter 14 of this book covers an implementation pla

Effective resource management and reliable equipment are essential for optimum plant performance. Computer-Managed Maintenance Systems goes beyond the simple selection and implementation of a CMMS. It also defines the changes in infrastructure, management philosophy and employee skills that must be implemented to gain maximum benefits from the CMMS. The book is designed to address the information needs of all levels of plant management. In this new edition, the authors have added a chapter specifically on the latest technology, Application Solution Providers (ASP) that has

Access Free World Class Maintenance Management The 12 Disciplines

revolutionized the way CMMS are used and the benefits they can offer to a business. This solution provides integrated software, hardware and networking technology along with Information Technology (IT) consulting services into an outsourced package. A new appendix on Key Performance Indicators has also been added. Comprehensive, practical guide that covers selection, justification, and implementation of an effective CMMS in any facility All levels of plant management will find useful information in this step-by-step guideIncludes a new chapter on ASP technologies "As the only reference that provides vital information in a concise and easy-to-use format, Benchmarking Best Practices in Maintenance Management will provide users with all the necessary tools to be successful in benchmarking maintenance management. As a revision of the author's previously successful resource, World Class Maintenance Management, it presents a logical, step-by-step methodology that will enable a company to conduct a cost-effective benchmarking effort. It presents an overview of the benchmarking process, a self analysis, and a database of the results of more than 100 companies that have used the analysis. "This is an excellent reference manual. I believe it should be in the hands of every manager, engineer, and supervisor in the maintenance field." --James A. Collier, University of Arkansas"

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

Access Free World Class Maintenance Management The 12 Disciplines

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 This book had to be written for industries to realize what they are missing. My goal is to reach out to industries and convince them that these two cannot co-exists without each other and that it is time for both operators and maintenance to finally work together in improving not only the productivity but as well as improving the reliability of their equipment and assets. Separating these two only creates feud and friction between them. When I sometimes think about this, all I can say is that the problems on industries remain deeply rooted down in their organization, from how their organizational was structured, their policies, procedures they wrote and the rules they imposed upon their employees. This book may sound contradicting to many of the policies industries imposed and all I ask from the reader is to finish reading this book so that the reader can understand my reasons behind the contradiction. Industries hire me for one reason, so that I can

Access Free World Class Maintenance Management The 12 Disciplines

tell them what is wrong with them on how they do maintenance and what can be done about it. In today's industry's norm, maintenance are often provided with blinkers or blinders. This is an eye patch they place on the eyes of the horse so that the horse cannot see the rear or what is on their side and can only see the front. The moment they were hired, they wore this blinkers so that maintenance can only see the things you learned from the University of Hard Knocks. When it is time for them to retire, then this blinders needs to be pass on to the new maintenance generation and that is how it goes for industries It is time to remove those blinkers/blinders so that maintenance can see at a wider range and found out what they are missing at all. There are many things that we need to change so that industries can move forward and remain in business. This book is composed of twelve chapters in which I include a quiz at the end of each chapter for the reader to answer in order to grasp the level of understanding they got from reading each chapter. Chapter 1 discuss about why operators are important on any maintenance and reliability strategy. As our equipment continues to be upgraded and automated, we need operators who are not only switch flickers and operate the equipment but what we need are operators who can sense if something is wrong with their equipment at its earliest possible stage. Dealing a small problem is less expensive than waiting for the failure to come. The breakdowns and failures we experience on our equipment are just merely an accumulation of small problems that had been neglected so far. The problem was that when these problems were small nothing had been done to correct them until another small problem emerge and another and another in which finally the equipment can no longer bear which ended up in a breakdown. And when the machine fails, then that is the time we react. Chapter 2 explains what maintenance is all about. What it can do and what it cannot

Access Free World Class Maintenance Management The 12 Disciplines

do. Maintenance is simple, but often times industries complicate matters. For example Preventive Maintenance is one of the strategies on maintenance. This is a very good strategy indeed as its role is to extend the lifespan of the asset instead of doing maintenance on a reactive or crash basis but the problem is that most industries misuse, abuse or overuse this strategy ending up in more breakdowns instead of the other way around. Chapter 3 discuss about human errors. This is a very important topic as most of the world's lists industrial incidents, I mean almost all industrial accidents that happened all around the world was mostly a matter of maintenance and human errors. Although technically speaking, there is indeed no way to eliminated human errors since this is part of being human. Human errors has many origins and even the best and smartest employee we have can commit the worst errors and mistakes but the good news is that human errors can be manage more intelligently. 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.

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

Access Free World Class Maintenance Management The 12 Disciplines

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.

"With world-wide industrial maintenance management consulting experience spanning over 40 years, Tomlinsong has created a classic textbook for achieving and sustaining World Class maintenance. Logical, realistic steps and case studies are clearly explained and illustrated for immediate application in the world of industrial maintenance management"--Page 4 of cover.

This book introduces a scientific way of doing maintenance, and make it simple enough so everyone could understand the concept and be able to implement the program. At the end of some chapters, practice sections are included to influence thinking and familiarize the reader with simple implementation steps. If content implemented correctly, the steps and programs in this book should become a way of life in any manufacturing company, and will produce 15 great benefits.

- 1.Eliminates PMs that have no value.
- 2.Eliminates downtime.
- 3.Reduces emergency work-orders.
- 4.Reduces maintenance overtime.
- 5.Increases plant productivity.
- 6.Reduces annual shutdown duration, and cost.
- 7.Improves maintenance planning.
- 8.Identifies training requirement, for maintenance and operations.
- 9.Truly identifies operations and maintenance responsibilities.
- 10.Reduces total maintenance cost.
- 11.Creates a cooperative environment between operation and maintenance.
- 12.Identifies the true capital projects that need to be completed to reduce failures.
- 13.Identifies design issues that need to be addressed.
- 14.Identifies weaknesses in operating procedures.
- 15.Identifies the correct spare parts that need to be in inventory.

"The Maintenance Management Framework" describes and

Access Free World Class Maintenance Management The 12 Disciplines

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 will be bought by engineers and professionals involved in maintenance management, maintenance engineering, operations management, quality, etc. as well as graduate students and researchers in this field.

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. This book depicts the life and struggle of maintenance in seeking better ways and means to improve the reliability of the equipment and assets. The author shares his experience on how to achieve such feat. Transitioning from a reactive to a proactive maintenance stage is not an easy tasks but it is not also an impossible tasks. What the author believes is that the key to everything is educating the maintenance people on what maintenance is all about. Training is where we acquire knowledge to develop the skills required to do our job right. This book contains real life stories, struggles and actual experiences by the author in his career in maintenance and currently as a Reliability and Maintenance Consultant. Every industry must change their paradigm and realize that maintenance

Access Free World Class Maintenance Management The 12 Disciplines

are not repair people. The meaning of the word maintain is simply to preserve our equipment and assets. And we can only preserve our assets if maintenance are equipped with the right knowledge on how to perform their jobs right the first time around. I have written this book in order to reach out to industries in search of discovering ways to improve not only their equipment and assets but as well as their maintenance human resources. Remember that maintenance is not a department, it is not a function or any organization but rather maintenance are humble and down to earth human being, hence let us provide them with the respect that they truly deserve because that is all they ask for. The message of this book is simple and straightforward. There is no better way to start the journey to reliability other than to go back to the basics and addressing these very small problems we have in our plant. Big problems, unplanned breakdowns and catastrophic failures are just an accumulation of small problems that has always been ignored in the first place. Maintenance is always a shared responsibility for operators and maintenance working together in complete harmony. It will be difficult for maintenance to transition from a reactive to a proactive mode if operators will not be involved in doing maintenance since maintenance is always a shared responsibility for operators and maintenance This book explains in detail on how to

Access Free World Class Maintenance Management The 12 Disciplines

proceed with the 4 Phases of Planned Maintenance and how to integrate RCM into the TPM process. It also covers the importance of doing Autonomous Maintenance as well as Spare Parts Management which is believed to be the missing link theory on any reliability and maintenance strategy. Chapter 11 is a classic case study on what maintenance can achieve if there is a clear roadmap to follow. The last chapter states that maintenance are just human like you and me. What is important is not to blame them for every single failure that occur in the plant but for both operations and maintenance to work together on the problem. Many industries are looking for a structured and detailed approach on how they can improve their maintenance asset and resources. This book provide that level of information. Each chapter begins with a quote on wisdom of maintenance and at the end of each chapter will be a quiz for you to answer.

This 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.

To maintain competitiveness in the emerging global economy, U.S. manufacturing must rise to new standards of product quality, responsiveness to

Access Free World Class Maintenance Management The 12 Disciplines

customers, and process flexibility. This volume presents a concise and well-organized analysis of new research directions to achieve these goals. Five critical areas receive in-depth analysis of present practices, needed improvement, and research priorities: Advanced engineered materials that offer the prospect of better life-cycle performance and other gains. Equipment reliability and maintenance practices for better returns on capital investment. Rapid product realization techniques to speed delivery to the marketplace. Intelligent manufacturing control for improved reliability and greater precision. Building a workforce with the multidisciplinary skills needed for competitiveness. This sound and accessible analysis will be useful to manufacturing engineers and researchers, business executives, and economic and policy analysts.

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

Access Free World Class Maintenance Management The 12 Disciplines

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

This book is written for industries looking for strategies on how to improve their current lubrication

Access Free World Class Maintenance Management The 12 Disciplines

practices and save costs on lubricants, wastes, spillages and failures attributed to lubrication failures.

Analyzing maintenance as an integrated system with objectives, strategies and processes that need to be planned, designed, engineered, and controlled using statistical and optimization techniques, the theme of this book is the strategic holistic system approach for maintenance. This approach enables maintenance decision makers to view maintenance as a provider of a competitive edge not a necessary evil.

Encompassing maintenance systems; maintenance strategic and capacity planning, planned and preventive maintenance, work measurements and standards, material (spares) control, maintenance operations and control, planning and scheduling, maintenance quality, training, and others, this book gives readers an understanding of the relevant methodology and how to apply it to real-world problems in industry. Each chapter includes a number exercises and is suitable as a textbook or a reference for a professionals and practitioners whilst being of interest to industrial engineering, mechanical engineering, electrical engineering, and industrial management students. It can also be used as a textbook for short courses on maintenance in industry. This text is the second edition of the book, which has four new chapters added and three chapters are revised substantially to reflect

Access Free World Class Maintenance Management The 12 Disciplines

development in maintenance since the publication of the first edition. The new chapters cover reliability centered maintenance, total productive maintenance, e-maintenance and maintenance performance, productivity and continuous improvement.

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.

Tap into Joel Levitt's vast array of experience and learn how to improve almost any aspect of your maintenance organization (including your own abilities)! This new edition of a classic first educates readers about the globalization of production and the changing of the guard of maintenance leadership, and then gives them real usable ideas to aid in these areas. Completely reorganized so that material is presented within the context of major sections, the second edition tells the story of maintenance management in factory settings. It provides coverage of potential problems and new opportunities, what bosses really want, specifics for improvement of maintenance and production, World Class Maintenance Management revisited and revised, quality improvement, complete coverage of current maintenance practices, processes, process aids, interfaces and strategies, as well as personal and personnel development strategies. Contains a specialized glossary so users can more easily

Access Free World Class Maintenance Management The 12 Disciplines

understand the specialized language of factory maintenance. Provides specific "how-to" tips and concrete techniques and examples for continuous improvement. Updates the 20 steps to world class maintenance to include the 6 areas of focus for world class maintenance. Includes a completely updated maintenance evaluation questionnaire that reflects new techniques and technologies. Breaks down and explains the three-team approach to maintenance work. Offers new sections on: managing shutdowns, craft training, and communications. Contains major revisions to the RCM discussion and includes a new discussion about PMO.

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. Completely reorganised and comprehensively rewritten

Access Free World Class Maintenance Management The 12 Disciplines

for its second edition, this guide to reliability-centred maintenance develops techniques which are practised by over 250 affiliated organisations worldwide.

This proceeding is a compilation of selected papers from the 8th International Workshop of Advanced Manufacturing and Automation (IWAMA 2018), held in Changzhou, China on September 25 - 26, 2018. Most of the topics are focusing on novel techniques for manufacturing and automation in Industry 4.0 and smart factory. These contributions are vital for maintaining and improving economic development and quality of life. The proceeding will assist academic researchers and industrial engineers to implement the concepts and theories of Industry 4.0 in industrial practice, in order to effectively respond to the challenges posed by the 4th industrial revolution and smart factory.

This book depicts the life and struggle of maintenance in seeking better ways and means to improve the reliability of the equipment and assets. The author shares his experience on how to achieve such feat. Transitioning from a reactive to a proactive maintenance stage is not an easy tasks but it is not also an impossible tasks. What the author believes is that the key to everything is educating the maintenance people on what maintenance is all about. Training is where we acquire knowledge to develop the skills required to do our job right. This book contains real life stories, struggles and actual experiences by the author in his career in maintenance and currently as a Reliability and Maintenance Consultant. Every industry must change their paradigm and realize that maintenance are not repair people. The

Access Free World Class Maintenance Management The 12 Disciplines

meaning of the word maintain is simply to preserve our equipment and assets. And we can only preserve our assets if maintenance are equipped with the right knowledge on how to perform their jobs right the first time around. I have written this book in order to reach out to industries in search of discovering ways to improve not only their equipment and assets but as well as their maintenance human resources. Remember that maintenance is not a department, it is not a function or any organization but rather maintenance are humble and down to earth human being, hence let us provide them with the respect that they truly deserve because that is all they ask for.

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 and systematic approach, a framework of guidelines, for tackling this problem, i.e. for deciding maintenance objectives, formulating equipment life plans and plant maintenance schedules, designing the maintenance organisation and setting up appropriate systems of documentation and control. The author, Anthony Kelly, an experienced international consultant and lecturer on this subject, calls his approach BUSINESS-CENTRED MAINTENANCE (BCM) because it springs from, and is driven by, the identification of business objectives, which are then translated into maintenance objectives and which underpin the maintenance strategy formulation. For the first time maintenance management is analysed from the perspective of the whole company and thus makes sense not only technologically but also in

Access Free World Class Maintenance Management The 12 Disciplines

economic and business terms. Complete guide to maintenance from a whole-company perspective Best-selling and world-renowned author Complementary to RCM (Moubray) and TPM (Wilmott)

[Copyright: 9413439b4d4d22ed8920b6a11e432968](https://www.pdfdrive.com/maintenance-management-the-12-disciplines-pdf-free.html)