

# Certified Maintenance And Reliability Professional Study Guide

Every reliability improvement initiative that has failed or floundered has lacked sustained leadership from the senior executive. The programs were based on technical "common sense," not business value, and the lack of leadership meant the culture did not change. This book explains how to build a solid business case and win senior management support. It lays the foundation for a successful and sustained program: ensuring the needs and risks of the business are clearly understood, assessing the current state, identifying the gaps, establishing targets and priorities, jumpstarting with pilot projects, and building the economic justification. Appendices explain the economics of reliability (ROI, NPV, IRR, EVA, and more), the value of reliability (OEE, TEEP, safety, and more), Pareto analysis, asset criticality ranking, and selling to senior management. This book does not just tell you what you should do; it lays out a step-by-step guide for exactly how to do it successfully with eight core steps and 44 detailed recommended practices. If you want to launch a new program or revive an existing program, this is the place to start.

The fully updated industry-standard guide to maintenance planning and scheduling Written by a Certified Maintenance and Reliability Professional (CMRP) with more than three decades of experience, this thoroughly revised resource provides proven planning and scheduling strategies that will take any maintenance organization to the next level of performance. The book covers the accuracy of time estimates, the level of detail in job plans, creating schedules, staging material, utilizing a CMMS, and more, all designed for increasing your workforce without hiring. Maintenance Planning and Scheduling Handbook, Third Edition features major additions to the business case for planning and scheduling, new case studies, an expanded chapter on KPIs with sample calculations, a new chapter on successful outage management, and a new appendix illustrating how to easily conduct an in-house productivity study. New discussions reveal how the principles of planning and scheduling closely follow the timeless management principles of Dr. W. Edwards Deming and Dr. Peter F. Drucker. This comprehensive guide delivers the experience, advice, and know-how necessary to establish a world-class maintenance operation. Detailed coverage of: The business case for the benefit of planning Planning principles Scheduling principles Dealing with reactive maintenance Basic planning Advance scheduling Daily scheduling and supervision Forms and resources The computer in maintenance How planning interacts with preventive maintenance, predictive maintenance, and project work How to control planning and use associated KPIs for planning and overall maintenance Shutdown, turnaround, overhaul, and outage management Conclusion: start planning

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

This book explains the tools and processes that allow changes in the way maintenance works. It allows you to learn industrial maintenance

and reliability concepts and how to improve the maintenance performance, so you can move from reactive maintenance to proactive maintenance. This book includes real cases that exemplify concepts of maintenance and reliability. It presents a diagram with practical evidence and explains how to move from reactive to proactive maintenance. It's written in a storytelling style that keeps the attention of the reader and provides tools for young and experienced professionals. This book is useful for anyone working in the maintenance and reliability fields, as well as plant engineers, and industrial engineers and managers in general.

Asset Condition Monitoring Management

Green Careers in Building and Landscaping

CMRP Test Review for the Certified Materials and Resources Professional Examination

The CONTROL Phase of the Asset Reliability Transformation

Maintenance and Reliability Best Practices

Industrial Machinery Repair provides a practical reference for practicing plant engineers, maintenance supervisors, physical plant supervisors and mechanical maintenance technicians. It focuses on the skills needed to select, install and maintain electro-mechanical equipment in a typical industrial plant or facility. The authors focuses on "Best Maintenance Repair Practices" necessary for maintenance personnel to keep equipment operating at peak reliability and companies functioning more profitably through reduced maintenance costs and increased productivity and capacity. A number of surveys conducted in industries throughout the United States have found that 70% of equipment failures are self-induced. If the principles and techniques in this book are followed, it will result in a serious reduction in "self induced failures". In the pocketbook format, this reference material can be directly used on the plant floor to aid in effectively performing day-to-day duties. Data is presented in a concise, easily understandable format to facilitate use in the adverse conditions associated with the plant floor. Each subject is reduced to it simplest terms so that it will be suitable for the broadest range of users. Since this book is not specific to any one type of industrial plant and is useful in any type of facility. The new standard reference book for industrial and mechanical trades Accessible pocketbook format facilitates on-the-job use Suitable for all types of plant facilities

"This book explains the tools and processes that allow changes in the way maintenance works. It allows you to learn industrial maintenance and reliability concepts and how to improve the maintenance performance, so you can move from reactive maintenance to proactive maintenance. This book includes real cases that exemplify concepts of maintenance and reliability. It presents a diagram with practical evidence and explains how to move from reactive to proactive maintenance. It's written in a storytelling style that keeps the attention of the reader and provides tools for the young professionals and the experienced. This book is useful for anyone working in the maintenance and reliability fields, as well as plant engineers, and industrial engineers and managers in general"--

The popular RCMII methodology has been around since the late '90s, but it was what professionals call a consequence-based approach. This work represents a revision to that bestselling work, by John Moubray, with more modern thinking, an emphasis on a risk-based methodology, and alignment with International ISO standards (55000 and 31000). The result is a more holistic,

integrated, and rigorous way for developing asset care and risk-mitigating strategies for physical assets. Since the release of the ISO 31000 and ISO 55000 Standards for Risk Management and Asset Management respectively, Aladon developed RCM3, a risk-based RCM methodology that places managing the risk and reliability of physical assets mainstream with other business management systems in an organization. RCM3 fully complies and exceeds the requirements of the SAEJA 1011 Standard and fully aligns with the frameworks of the ISO Standards. The new risk-based focus of RCM3 features the following principles: \* The proactive management of physical and economic risks. \* Updated approach for testing and managing of protective systems. \* Based on the requirements of the fourth industrial revolution (Industry 4.0) and its challenges. \* Covers new expectations and new maintenance techniques for fourth-generation maintenance. \* Places reliability & risk management mainstream with organizational objectives and management systems. \* Aligned and integrated with International ISO Standards for Physical Asset Management and Risk Management (ISO 55000 & ISO 31000). \* Now part of an integrated asset strategy for full life-cycle management of physical assets.

New to maintenance supervision or management? Wondering where to start or what road map to follow? Maybe you are a maintenance veteran. This book provides direction in most areas of maintenance and reliability for an industrial manufacturing facility for the young or old. The concepts presented can be extended to any industry that uses equipment and maintain their building and grounds. Prepare to read twenty-five years of experience summed up for a concise set of tools and many tips as a jump start toward maintenance excellence. Thirty-plus proven tools are provided to aid your journey that are easily adaptable to any maintenance organization. Sometimes the human capital element gets lost in the day-to-day fighting fires. The proven leadership tips presented will produce results if adapted. Just raising the level of attention of the workers will produce results and solidify the team that accomplishes the maintenance on the shop floor or out in the field. Expect to realize improvements in your process.

Maintenance Planning and Scheduling Handbook

Strategies for Excellence in Maintenance Management, Third Edition

Models for Operational Excellence

The ASQ Certified Manager of Quality/Operational Excellence Handbook, Fifth Edition

A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Seventh Edition and The Standard for Project Management (RUSSIAN)

***Presenting the best practices of the best manufacturing companies in the world, this book presents proven models for achieving world-class performance. Using a case study of a fictional company called Beta International, Moore illustrates how to increase uptime, lower costs, increase market share, maximize asset utilization, apply benchmarks and best practices, and improve many other aspects that ultimately raise your company's performance to the level of world-class. 'Making Common Sense Common Practice' takes a good, hard look at plant design, procurement, parts management, installation and maintenance, training, and***

*implementing a computerized maintenance management system. In discussing the successes and failures of the world's premier manufacturers, Moore outlines a stable path of growth for almost any manufacturing company. In today's tough competitive markets, 'Making Common Sense Common Practice' greatly enhances your company's chance to succeed - and profit. \* Third edition features updating plus new sections on innovation, change management, and leadership \* Presents proven models for achieving world-class performance based on real-life case histories \* Highly readable, concrete style brings the key points to life through a case study of a fictitious organization, Beta International, which runs throughout the book, based on real case histories*

*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 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*

*Maintenance and Reliability Best Practices Industrial Press Inc.*

*This book represents a significant step towards improving the knowledge of, and communications between, members of the Maintenance and Reliability Profession. With more than 3000 entries, the compilation reflects a virtual explosion of commonly practiced concepts, ideas, methodologies and various approaches to maintenance and reliability improvements. An additional directory of maintenance and reliability acronyms is included. Maintenance and reliability involves many different people in many*

*different roles. If we are expected to work efficiently, productively, and harmoniously on tasks and projects, there is need for a common language for communication. It is the goal of The Professional's Guide to Maintenance and Reliability Terminology to provide this basis. Robert Baldwin, Ramesh Gulati, and Jerry Kahn, have served the maintenance and reliability profession in many capacities for decades. Together, they have over 100 years of experience working in this field. All are Certified Maintenance and Reliability Professionals (CMRPs).*

*Maintenance Leadership 101 - Tips and Tools*

*Rules of Thumb for Maintenance and Reliability Engineers*

*Models for Manufacturing Excellence*

*Six Sigma Yellow Belt*

*Reliability-centered Maintenance*

**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**

**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.**

**This handbook is a comprehensive reference designed to help professionals address organizational issues from the application of the basic principles of management to the development of strategies needed to deal with today's technological and societal concerns. The fifth edition of the ASQ Certified Manager of Quality/Organizational Excellence Handbook (CMQ/OE) has undergone some significant content changes in order to provide more clarity regarding the items in the body of knowledge (BoK). Examples have been updated to reflect more current perspectives, and new topics introduced in the most recent BoK are included as well. This handbook addresses:**

- Historical perspectives relating to the continued improvement of specific aspects of quality management
- Key principles, concepts, and terminology
- Benefits associated with the application of key concepts and quality management principles
- Best practices describing recognized approaches for good quality management
- Barriers to success, common problems you may encounter, and reasons why some quality initiatives fail
- Guidance for preparation to take the CMQ/OE examination

**A well-organized reference, this handbook will certainly help individuals prepare for the ASQ CMQ/OE exam. It also serves as a**

practical, day-to-day guide for any professional facing various quality management challenges.

Thinking about a green career or looking for a college or university that promotes great green programs? Peterson's Green Careers in Building and Landscaping pinpoints the best opportunities in building design and construction; installation, operations, and energy efficiency; commercial industrial, and residential design; landscaping, groundskeeping, and turf care; and policy, analysis, advocacy, and regulatory affairs-with job details as well as info on colleges, organizations, and institutions that offer courses, degrees, certification, and training/retraining-that can lead to a green career. Green Careers in Building and Landscaping offers inspirational and insightful essays on the importance of sustainability, written by individuals at the forefront of environmental organizations, university sustainability efforts, and college training programs. Essay writers include folks with the U.S. Green Building Council (USGBC), Second Nature, Earth911.com, University of Arizona, Philadelphia University, and Skanska USA Building Inc. Green Careers in Building and Landscaping also features an exclusive bonus section, "What Is the New Green Economy," which examines the current interest in sustainability. You'll also find building and landscaping-related features, including interviews with individuals in a variety of green careers. Other feature articles offer useful tips and advice for a more sustainable life.

**Making Common Sense Common Practice 4th Edition**

**Affordable Reliability Engineering**

**Breaking Out of the Reactive Maintenance Cycle of Doom**

**Reliability Centered Maintenance (RCM3)**

**Launching Your Asset Reliability Transformation**

**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.**

**Drawing upon the author's many years of shop floor and management experience in a variety of industries, this bestseller is designed to provide a basic yet thorough understanding of Maintenance and Reliability "Best Practices." This book recognizes that to implement best practices requires a workforce with a thorough understanding and knowledge of Maintenance and Reliability principles and the available technologies. But implementation is not as simple as just putting something new into effect. To truly implement a best practice requires learning, relearning, benchmarking, and realizing better ways of ensuring high reliability and availability of equipment and systems. This book explains and supports this ongoing process, and is an essential guide and reference for everyone who wants to ensure that their company's assets are operating as and when needed and at reasonable cost. It is ideal for designers who design the equipment; operators who**

**operate; and maintainers who maintain, as well as warehouse and store personnel who procure and supply materials; engineers who improve the reliability; and human resource professionals who provide and arrange for a work force. Students specializing in the M&R field will also benefit, and a special student workbook (ISBN 9780831134358) will be published for the first time.**

**Intro / prep handbook on basics of the quality field / its philosophies for ASQE's CQIA (Certified Quality Improvement Associate) certification exam.**

**Drawing upon the authors many years of shop floor and management experience in a variety of industries, this**

**A Hands-On Introduction to Six Sigma**

**Assessing Your Current State, Developing the Business Case, and Gaining Senior Executive Support**

**Maintenance Planning and Scheduling Handbook, 4th Edition**

**The Certified Reliability Engineer Handbook**

An in-depth view into the best practices of the best manufacturing companies in the world. This book presents proven models for achieving world-class performance. Using a case study of a fictional company called Beta International, Moore illustrates how to increase uptime, lower costs, increase market share, maximize asset utilization, apply benchmarks and best practices, ultimately increasing your company's performance. Gain an expert view of plant design, procurement, parts management, installation and maintenance, training, and implementation of a computerized maintenance management system. In discussing the success and failure of the world's premier manufacturers, Moore outlines a stable path of growth for almost any manufacturing company. In today's tough competitive markets, this valuable information greatly enhances your company's chance to succeed and profit.

The extensively revised second edition of Terry Wireman's landmark introduction to CMMS has been written to assist anyone investigating the possibility of using a computer in the maintenance function. It provides the information needed to successfully evaluate, select, and implement a system. Readers unfamiliar with the earlier book will discover how progressive companies are using computer programs to achieve cost reduction and control the maintenance of any facility.

Even a 1% improvement in maintenance could generate tens of millions of dollars in profits. In a world were oil

and gas companies are forced to spend more for exploration and production. This could mean the difference between financial success and failure. However, Maintenance Schedule is quite possibly, the hardest thing to implement within the maintenance organization. The problem is that even the most experience managers rarely possess all the special planning and scheduling skills. Planning and Scheduling: Manage Smarter allows engineers and supervisors to implement a customized improvement plan that will improve performance and save time and money. With this book in hand engineers and supervisors learn the most effective maintenance planning and scheduling practices to efficiently use labor; manage parts, tools, and drawings; reduce time spent waiting for jobs to be assigned; and streamline complex down-days and shutdowns. A clear definition of the roles and responsibilities in the planning and scheduling process Tools and techniques for effectively identify and prioritize work orders Advice for reducing time spent waiting for jobs to be assigned Rules for streamlining complex down-days and shutdowns

\*\*\*Includes Practice Test Questions\*\*\* CMRP Exam Secrets helps you ace the Certified Materials & Resources Professional Examination, without weeks and months of endless studying. Our comprehensive CMRP Exam Secrets study guide is written by our exam experts, who painstakingly researched every topic and concept that you need to know to ace your test. Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you've ever imagined. CMRP Exam Secrets includes: The 5 Secret Keys to CMRP Exam Success: Time is Your Greatest Enemy, Guessing is Not Guesswork, Practice Smarter, Not Harder, Prepare, Don't Procrastinate, Test Yourself; A comprehensive General Strategy review including: Make Predictions, Answer the Question, Benchmark, Valid Information, Avoid Fact Traps, Milk the Question, The Trap of Familiarity, Eliminate Answers, Tough Questions, Brainstorm, Read Carefully, Face Value, Prefixes, Hedge Phrases, Switchback Words, New Information, Time Management, Contextual Clues, Don't Panic, Pace Yourself, Answer Selection, Check Your Work, Beware of Directly Quoted Answers, Slang, Extreme Statements, Answer Choice Families; A comprehensive Content review including: Requisition and Electronic Requisition, Purchasing Process, Fundamental Principles of Purchasing, Traveling Purchase Request, Purchase Order and Standing Order, Free on Board (FOB), Payment Terms, Purchase Orders, Capital Terms, Liabilities and Warranties, Uniform Commercial Code, Activity Based Costing (ABC), Activity Based Management (ABM), Category Management and Cross Docking, Inventory Distribution Management, Economic Order Quantity (EOQ), First In, First Out (FIFO), Just-In-Time System, Materials Management Professional, Operating Room, Support Services, Material Safety Data Sheet (MSDS), Chemical Hazard Communication Standard (CHCS), Infectious Waste, Hazardous Materials and Waste System, JCAHO, National Fire Protection Agency, Linens, and much more...  
Planning and Scheduling: Manage Smarter

Maintenance Engineering Handbook  
RCM--Gateway to World Class Maintenance  
Techniques, Stories, and Cases  
Allied Reliability Group Pocket Consultant Series

**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.**

**The 10 Rights of Asset Management is about doing the right things at a system asset level in order to create greater value from the assets during their lifecycle. However, it's very important to ensure open communication and leadership support in creating the right policies and plans. Each of the 10 Rights are elaborated in ten separate chapters in the book: Specify It Right, Design It Right, Source It Right, Build/Fabricate It Right, Install/Commission It Right, Operate It Right, Maintain It Right, Improve/Modify It Right, Dispose/Decommission It Right, and Manage It Right. By implementing The 10 Rights of Asset Management, you will enable your organization to get more value from its assets and be in compliance with ISO 55000.**

**Stay Up to Date on the Latest Issues in Maintenance Engineering The most comprehensive resource of its kind, Maintenance Engineering Handbook has long been a staple for engineers, managers, and technicians seeking current advice on everything from tools and techniques to planning and scheduling. This brand-new edition brings you up to date on the most pertinent aspects of identifying and repairing faulty equipment; such dated subjects as sanitation and housekeeping have been removed. Maintenance Engineering Handbook has been advising plant and facility professionals for more than 50 years. Whether you're new to the profession or a practiced veteran, this updated edition is an absolute necessity. New and updated sections include: Belt Drives, provided by the Gates Corporation Repair and Maintenance Cost Estimation Ventilation Fans and Exhaust Systems 10 New Chapters on Maintenance of Mechanical Equipment Inside: • Organization and Management of the Maintenance Function • Maintenance Practices • Engineering and Analysis Tools • Maintenance of Facilities and Equipment • Maintenance of Mechanical Equipment • Maintenance of Electrical Equipment • Instrumentation and Reliability Tools • Lubrication • Maintenance Welding • Chemical Corrosion Control and Cleaning**

**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)***

***Best Maintenance Practices Pocket Guide***

***Industrial Maintenance***

***Maintenance Planning and Scheduling Handbook 3/E***

***Life-Cycle Cost Analysis for Sustainability & Logistical Support***

***10 Rights of Asset Management***

Many readers already regard the Maintenance Planning and Scheduling Handbook as the chief authority for establishing effective maintenance planning and scheduling in the real world. The second edition adds new sections and further develops many existing discussions to make the handbook more comprehensive and helpful. In addition to practical observations and tips on such topics as creating a weekly schedule, staging parts and tools, and daily scheduling, this second edition features a greatly expanded CMMS appendix which includes discussion of critical cautions for implementation, patches, major upgrades, testing, training, and interfaces with other company software. Readers will also find a timely appendix devoted to judging the potential benefits and risks of outsourcing plant work. A new appendix provides guidance on the "people side" of maintenance planning and work execution. The second edition also has added a detailed aids and barriers analysis that improves the appendix on setting up a planning group. The new edition also features "cause maps" illustrating problems with a priority systems and schedule compliance. These improvements and more continue to make the Maintenance Planning and Scheduling Handbook a maintenance classic.

PMBOK® Guide is the go-to resource for project management practitioners. The project management profession has significantly evolved due to emerging technology, new approaches and rapid market changes. Reflecting this evolution, The Standard for Project Management enumerates 12 principles of project management and the PMBOK® Guide – Seventh Edition is structured around eight project performance domains. This edition is designed to address practitioners' current and future needs and to help them be more proactive, innovative and nimble in enabling desired project outcomes. This edition of the PMBOK® Guide:

- Reflects the full range of development approaches (predictive, adaptive, hybrid, etc.);
- Provides an entire section devoted to tailoring the development approach and processes;
- Includes an expanded list of models, methods, and artifacts;
- Focuses on not just delivering project outputs but also

enabling outcomes; and • Integrates with PMIstandards+™ for information and standards application content based on project type, development approach, and industry sector.

How Can Reliability Analysis Impact Your Company's Bottom Line? While reliability investigations can be expensive, they can also add value to a product that far exceeds its cost. Affordable Reliability Engineering: Life-Cycle Cost Analysis for Sustainability & Logistical Support shows readers how to achieve the best cost for design development testing and evaluation and compare options for minimizing costs while keeping reliability above specifications. The text is based on the premise that all system sustainment costs result from part failure. It examines part failure in the design and sustainment of fielded parts and outlines a design criticality analysis procedure that reflects system design and sustainment. Achieve the Best Cost for Life-Cycle Sustainment Providing a framework for managers and engineers to develop and implement a reliability program for their organizations, the authors present the practicing professional with the tools needed to manage a system at a high reliability at the best cost. They introduce analytical methods that provide the methodology for integrating part reliability, failure, maintainability, and logistic math models. In addition, they include examples on how to run reliability simulations, highlight tools that are commercially available for such analysis, and explain the process required to ensure a design will meet specifications and minimize costs in the process. This text: Demonstrates how to use information gathered from reliability investigations Provides engineers and managers with an understanding of a reliability engineering program so that they can perform reliability analyses Seeks to resolve uncertainty and establish the value of reliability engineering Affordable Reliability Engineering: Life-Cycle Cost Analysis for Sustainability & Logistical Support focuses on reliability-centered maintenance and is an ideal resource for reliability engineers and managers. This text enables reliability professionals to determine the lowest life-cycle costs for part selection, design configuration options, and the implementation of maintenance practices, as well as spare parts strategies, and logistical resources.

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

The Professional's Guide to Maintenance and Reliability Terminology

The Wooing of Earth

CMRP Exam Secrets Study Guide

Preventive Maintenance Made Simple

Uptime

*This handbook is an in-depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical*

*industries. The book covers materials, corrosion, welding, heat treatment, coating, test and inspection, and mechanical design and integrity. A central focus is placed on industrial requirements, including codes, standards, regulations, and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility. The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage, and offers readers industry-tested best practices, rationales, and case studies.*

*This is the text used by Abidian in its hands-on introduction to Six Sigma for future Six Sigma project team members. Successful Six Sigma (or, for that matter, any other improvement toolset) is not about the tools. Abidian believes it is about creating a respectful, can-do, problem-solving work environment. Six Sigma Yellow Belt presents an introduction to Six Sigma and is ideal for future Six Sigma project team members. This eight-hour workshop is heavy on interactive group discussions and hands-on exercises.*

*Throughout, attendees will be encouraged to simplify, work the real (root) issues, and do "what makes sense."*

*Handbook of Engineering Practice of Materials and Corrosion*

*Maintenance Strategy*

*Planning and Scheduling Made Simple - 3rd Edition*

*Industrial Machinery Repair*

*Making Common Sense Common Practice*