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Handbook of Maintenance Management and Engineering

Mohamed Ben-Daya 2009-07-30 To be able to compete successfully both at national and international levels, production systems and equipment must perform at levels that are neither thinkable nor even thinkable a decade ago. Requirements for increased product quality, reduced throughput time and enhanced operating effectiveness within a rapidly changing customer demand environment continue to demand a high maintenance performance. In some cases, maintenance is required to increase operational effectiveness and revenue and customer satisfaction while reducing capital, operating and support costs. This may be the greatest 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 multi-disciplinary 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.

Maintainability & Maintenance Management - Joseph D. Patton 2005

Reliability is one of the most important characteristics defining the quality of a product or system, both for the manufacturer and the purchaser. One achieves high levels of quality through superior design and production. Another important measure of quality is maintenance. The maintenance manager is responsible for providing the customers with the required system availability at an affordable cost. This handbook introduces a scientific way of doing maintenance, and make it simple enough so that everyone can 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.

Maintenance Engineering Handbook, Eighth Edition:Keith Mobley 2013-12-29 The Most Complete, Current Guide to Every Aspect of Maintenance Engineering. Extensively updated to cover the latest technologies and methods, Maintenance Engineering Handbook, Eighth Edition offers in-depth details on identifying and repairing faulty equipment. This definitive resource focuses on proven best practices for maintenance, repair, and overhaul (MRO), inventory management, root cause analysis, and performance management. This thoroughly revised edition contains new chapters on: Reliability-based maintenance Preventive maintenance Sustainable maintenance Ultrasonic Operating dynamics Simplified failure modes and effects analysis Criticality analysis Process Handbook and value-stream mapping Featuring contributions from noted experts in the field, this authoritative reference will help you to successfully reduce excessive downtime and high maintenance costs by detecting and mitigating repetitive failures. Comprehensive coverage of: Organization and maintenance of the maintenance function * Best practices for maintenance and predictive maintenance * Engineering and analysis tools * Maintenance of mechanical, electrical, and facilities equipment

Predictive Maintenance Management, 3d Edition Jack R. Nicholas (Jr.) 2008-10-01 Predictive Maintenance Management Course Text - This text provides an overview of Predictive Maintenance Management (PMM). Descriptions of the 15 most commonly used predictive technologies form the heart of this text. Another 14 less commonly used technologies are described in less detail. Other subjects covered include the place of PM in the hierarchy of maintenance, its relationship to major advancements such as Reliability-Centered Maintenance, Total Predictive Maintenance and Root Cause Failure Analysis. Also described are elements of PM philosophy, analysis methods, program implementation best practices, and means of integrating into present-day operations and maintenance. Readers should already be familiar with application of one or more predictive technologies such as Vibration Analysis, Infrared Thermography, Lubricant and Wear Particle Analysis, Electric Motor Testing, and/or Ultrasonic Detection and Analysis. The textbook provides information on the following subjects for supervisors, senior (lead) technicians and “champions” involved with or considering a predictive maintenance and condition monitoring program and its expansion and improvement: Predictive Maintenance Philosophy, Goals and Objectives/Functions of a Predictive Maintenance and/or Condition Monitoring in the Overall Strategy and Processes of a Maintenance and Reliability Program Predictive Maintenance Program Alternatives and Cost Benefits Planning for Implementation, Expansion and Integration of a PM Program Cost Justifying and Budgeting for a PM Program Recruiting and Training Personnel for PM Functions 15 Ways of Strengthening a PM Program and Assuring Its Continuation Auditing Your Present PM Program to Determine Gaps Needing Attention Commonly Used Predictive Analysis Methods Trend Analysis Pattern Recognition Tests Against Limits or Sample Relative Comparisons Statistical Process Analysis Correlation Analysis This book concludes with recommendations for strengthening many elements of any predictive maintenance or condition monitoring program, based on experience gained in over 100 audits conducted worldwide by the authors and their associates.

Total Productive Maintenance - Tats Kari 2016-02-03 A systematic approach to improving production and quality systems, total productive maintenance (TPM) involves all employees through a moderate investment in maintenance. Therefore, a successful TPM implementation requires support of all employees from C-level on down. Total Productive Maintenance: Strategies and Implementation Guide highlights the philosophy, analysis methods, program implementation best practices, and means of integrating into present-day operations and maintenance. Readers should already be familiar with application of one or more predictive technologies such as Vibration Analysis, Infrared Thermography, Lubricant and Wear Particle Analysis, Electric Motor Testing, and/or Ultrasonic Detection and Analysis. The textbook provides information on the following subjects for supervisors, senior (lead) technicians and “champions” involved with or considering a predictive maintenance and condition monitoring program and its expansion and improvement: Predictive Maintenance Philosophy, Goals and Objectives/Functions of a Predictive Maintenance and/or Condition Monitoring in the Overall Strategy and Processes of a Maintenance and Reliability Program Predictive Maintenance Program Alternatives and Cost Benefits Planning for Implementation, Expansion and Integration of a PM Program Cost Justifying and Budgeting for a PM Program Recruiting and Training Personnel for PM Functions 15 Ways of Strengthening a PM Program and Assuring Its Continuation Auditing Your Present PM Program to Determine Gaps Needing Attention Commonly Used Predictive Analysis Methods Trend Analysis Pattern Recognition Tests Against Limits or Sample Relative Comparisons Statistical Process Analysis Correlation Analysis This book concludes with recommendations for strengthening many elements of any predictive maintenance or condition monitoring program, based on experience gained in over 100 audits conducted worldwide by the authors and their associates.

Case Studies in Reliability and Maintenance-Wallace R. Blishen 2003-03-27 Introducing a groundbreaking companion book to a bestselling reliability text Reliability is one of the most important characteristics defining the quality of a product or system, both for the manufacturer and the purchaser. One achieves high reliability through careful monitoring of design, materials and other input, production, quality assurance efforts, ongoing maintenance, and avoidance of related decisions and activities. All of these factors contribute to the costs of production, purchase, and ownership of a product. Case Studies in Reliability and Maintenance serves as a valuable addition to the current literature on the subject reliability by bridging the gap between theory and application. Conceived during the preparation of the editor's earlier work, Reliability: Modeling, Prediction, and Optimization (Wiley, 2000), this new volume features twenty-six actual case studies written by experts in their fields, each illustrating exactly how reliability models are applied. A valuable companion book to Reliability: Modeling, Prediction, and Optimization, or any other textbook on that subject, the book features: Case studies from fields such as aerospace, automotive, mining, electronics, power plants, diodes, computer software, weapons, photocopiers, industrial furnaces, granite building cladding, chemistry, and aircraft engines A logical organization according to the life cycle of a product system A unified format of discussion enhanced by tools, techniques, and models for drawing one's own conclusions Pertinent exercises for reinforcement of ideas Of equal value to both students of reliability theory as well as professionals in industry. Case Studies in Reliability and Maintenance should be required reading for anyone seeking to understand how reliability and maintenance issues can be addressed and resolved in the real world.

Simplified Maintenance Reliability (Smr)-Kaveh Golestaneh 2014-06-24 This book introduces a scientific way of doing maintenance, and make it simple enough so that 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.