



7

STEPS TO FOLLOW
FOR IMPLEMENTING

AUTONOMOUS MAINTENANCE

- 01  **INCREASING OPERATOR KNOWLEDGE**
- 02  **PERFORMING INITIAL CLEANING AND REPAIRS**
- 03  **ELIMINATING CONTAMINATION AND IMPROVING ACCESS**
- 04  **SETTING STANDARDS FOR CLEANING, LUBRICATIONS, AND INSPECTIONS**
- 05  **CARRYING OUT INSPECTION AND MONITORING**
- 06  **IMPLEMENTING VISUAL MAINTENANCE MANAGEMENT**
- 07  **ENSURING CONTINUOUS IMPROVEMENT**



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Steps Of Autonomous Maintenance

Sauro Riccetti



Steps Of Autonomous Maintenance:

Autonomous Maintenance in Seven Steps Fumio Gotoh, Masaji Tajiri, 2020-04-15 Autonomous maintenance is an especially important pillar of Total Productive Maintenance TPM because it enlists the intelligence and skills of the people who are most familiar with factory machines equipment operators Operators learn the maintenance skills they need to know through a seven step autonomous maintenance program Most companies in the West stop after implementing the first few steps and never realize the full benefits of autonomous maintenance This book contains comprehensive coverage of all seven steps not just the first three or four It includes An overview of autonomous maintenance features and checklists for step audits to certify team achievement at each AM step TPM basics such as the six big losses overall equipment effectiveness OEE causes of losses and six major TPM activities An implementation plan for TPM and five countermeasures for achieving zero breakdowns Useful guidelines and case studies in applying AM to manual work such as assembly inspection and material handling Integrates examples from Toyota Asai Glass Bridgestone Hitachi and other top companies By treating machines as partners and taking responsibility for them you get machines that you can rely on and help maintain an energized and responsive workplace For companies that are serious about taking autonomous maintenance beyond mere cleaning programs this is an essential sourcebook and implementation support

Autonomous Maintenance Daniel Lucky, Samuel Theodore, 2023-10-14 The vision of teams operating at zero defects without external intervention is at the heart of the overall JDS Joint Development Structure vision This ambitious goal relies heavily on leaders coaching and nurturing the skill development of individual team members and the collective capabilities of the entire team While all the pillars in JDS contribute to building this capability Autonomous Maintenance AM takes a central role in achieving it AM offers a practical approach to translating JDS principles into everyday behaviors and serves as the vehicle for creating a high performance organization AM represents a departure from traditional methods of achieving production results Companies around the world have discovered that the tools and techniques of AM are a proven pathway to eliminating losses Even organizations with already impressive results have experienced significant improvements through AM implementation This approach includes inherent mechanisms for cultivating the high level capabilities necessary to attain a zero defect operation Crucially AM is an integral part of the broader JDS strategy Just like all other pillars AM collaborates closely with the others to ensure the complete realization of a JOINT DEVELOPMENT STRUCTURE based on JDS principles This integrated approach ensures that the organization is well equipped to pursue its vision of operating with zero defects making it a truly formidable strategy for achieving excellence in manufacturing and production

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Improvement within the Step Process CAPD Cycle Section 2 AM Phase 0 Path to Success Section 2 AM Phase 1 Path to Success Section 3 Leadership AM Model Application Standards Section 4 AM Step 0 Preparation Section 5 AM Step 1 Cleaning to Find Defects Section 6 AM Step 2 Address Problems Section 7 AM Step 3 Establish Cleaning Inspection and Lubrication Standards Section 8 AM Step 4 Equipment Component Process Inspection Section 9 AM Step 5 Optimize Systems Work Processes Section 10 AM Step 6 Productivity and Flow Section 11 AM Step 7 Continuous Improvement Section 12 Coach 7 DMS s to AM Teams Section 14 Manage the Pillar Section 15 Qualification **Autonomous Maintenance in Seven Steps** Masaji Tajiri,Fumio Gotoh,1999 **7 Autonomous Maintenance Steps Poster** Enna,2017-05-16 The 7 Autonomous Maintenance Steps poster is used during an implemented TPM program to ensure that all maintenance staff and operators are clear on the principles for autonomous maintenance **Autonomous Maintenance Video Participants Guide** Press Productivity,2024-11-01 This is the Participant Guide to support team leaders in implementing an autonomous maintenance team This is usually sold with Autonomous Maintenance Shopfloor TPM Implementation This is for extra copies

Autonomous Maintenance for Operators Nihon Puranto Mentenansu Kyōkai,1997 TPM leads to soaring productivity when your operators are positively and energetically involved in the maintenance of their own equipment Autonomous Maintenance for Operatorsteaches specific autonomous maintenance activities For operators supervisors team leaders and TPM coordinators this book provides useful guidance and case study examples on autonomous maintenance Activity boards one point lessons photos cartoons and actual examples of implementation demonstrate the huge benefits of developing informed motivated operators who take ownership of and improve their equipment Shopfloor operators will learn 4 skills they can develop to keep equipment running smoothly how to inspect for problems as they clean equipment ideas for containing debris that shortens equipment life tips for effective lubrication management how to use activity boards meetings and one point lessons to promote TPM goals This book assumes some familiarity with the steps of autonomous maintenance and focuses on specific autonomous maintenance activities TPM in Process Industries Tokutaro Suzuki,2017-10-06 Process industries have a particularly urgent need for collaborative equipment management systems but until now have lacked for programs directed toward their specific needs TPM in Process Industries brings together top consultants from the Japan Institute of Plant Maintenance to modify the original TPM Development Program In this volume they demonstrate how to analyze process environments and equipment issues including process loss structure and calculation autonomous maintenance equipment and process improvement and quality maintenance For all organizations managing large equipment facing low operator machine ratios or implementing extensive improvement this text is an invaluable resource *Principles And Practice Of Total Productive Maintenance* BIKASH. BHADURY,2012 **Implementing TPM** Andrew Ginder,Alan Robinson,Charles J. Robinson,2020-08-26 This book provides an understanding of the complexity and comprehensiveness of the total productive maintenance TPM process It supplements works by Japanese authors with guidance and detail on how

the TPM process relates to North American plants or facilities **Modern Methods of Diagnosing Diseases** Mr. Rohit Manglik, 2024-07-30 Explores cutting edge diagnostic technologies and methodologies used in identifying diseases with high accuracy and efficiency **Design of Work and Development of Personnel in Advanced Manufacturing** Gavriel Salvendy, Waldemar Karwowski, 1994-03-31 Presents a framework of worldwide problems issues and solutions relevant to the design of work and development of personnel in advanced manufacturing systems Focuses on people and their central roles in automated production resulting from rapid computer based integration Addresses social technical organizational managerial and ecological design issues relating to manufacturing success and the business objectives of a firm Provides solutions to problems of integrating the human element into the production process *Fundamentals of Daily Shop Floor Management* Philip J. Gisi, 2023-02-17 Survival and thriving in today's business environment require companies to continuously strive for operational excellence at all levels of the organization Simply working to maintain existing operations is not an adequate or sustainable business strategy especially when competing in a global market To remain relevant companies must adopt a process control and continuous improvement mentality as an integral part of their daily work activities These two operational disciplines form the foundation and stepping stones for manufacturing excellence Processes must be stable capable and controlled as a prerequisite for sustainable improvement Sustainable improvements must be strategic continuous and focused on process optimization Modern day manufacturing is rapidly changing in the face of technological geopolitical social and environmental developments These challenges are altering the way we think and act to transform raw materials into finished goods Meeting these challenges requires particular attention to how we develop and engage people and apply technology for long term sustainability and competitive advantage This book takes you on a journey to explore the fundamental elements management practices improvement methods and future direction of shop floor management Part 1 of this five part book considers workplace culture organizational structure operational discipline and employee accountability as the foundation for a robust manufacturing system Part 2 studies the impact of process standardization data analytics information sharing communication and people on daily shop floor management Once the management system has been adequately described Part 3 concentrates on its effective execution monitoring and control with a deep look into the people methods machines materials and environment that make it possible Like every good manufacturing text efficiency and productivity are key topics That's why Part 4 explores various methods tools and techniques associated with product and process development productivity improvement agile methods shop floor optimization and manufacturing excellence The final section Part 5 shifts focus to emerging technologies engaging the reader to contemplate technology's impact on the digital transformation of the manufacturing industry **Production and Operations Management** K.C. Arora, 2004 **Mechanic Machine Tool Maintenance (Theory) - I** Mr. Rohit Manglik, 2024-05-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with

high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Planning and Control of Maintenance Systems Salih O. Duffuaa,A. Raouf,2015-07-11 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 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

TPM - A Route to World Class Performance Peter Willmott,Dennis McCarthy,2000-11-17 Total productive maintenance TPM a Japanese management protocol developed to alleviate production losses caused by machine breakdowns has moved on Through TPM more companies accept the concept of Zero Breakdowns as achievable From the foundation of zero breakdowns world class plants are able to run for complete shifts without the need for intervention TPM is still pushing back the boundaries of what was thought possible Driven by the proven principles of TPM the book emphasises the need to build on existing good practices and to win commitment by delivering results The book provides a practical guide to delivering TPM benefits and is based on the authors first hand experience of seeing TPM in Japan It adapts these benefits to suit the strategic needs of companies across four continents TPM A Route to World Class Performance builds on Peter Willmott s earlier book TPM the Western Way updating the scope of applications and tools The TPM route map is updated to include the journey to zero breakdowns and beyond It also provides a systematic structure to evolve from the classic Total Productive Maintenance towards Total Productive Manufacturing and deliver a Totally Productive Operation capable of world leading performance

Systematic Industrial Maintenance to Boost the Quality Management Programs Adnan Bakri,Mohd Al-Fatihhi Mohd Szali Januddi,2020-06-04 This book discusses the main quality management QM programs and their possible integration into systematic industrial maintenance SIM Unlike traditional engineering maintenance books it not only explains the theory but also provides practical examples of the

integration of QM and SIM programs It also includes reference sources making it useful for readers wanting to explore specific areas in more depth Chapter 1 introduces various aspects of the main quality management QM programs including total quality management TQM just in time JIT and lean manufacturing Lean Subsequently it examines the relation of quality and maintenance Chapter 2 reviews the concepts of systematic industrial maintenance SIM and the application of quality control QC tools Chapter 3 offers an overview historical perspective and trends in industrial maintenance techniques Chapters 4 5 6 7 8 and 9 focus on topics related to schedule based maintenance condition based maintenance reliability based maintenance computerized based maintenance risk based maintenance and total productive maintenance Covering the theory of each of these types of SIM the chapters also explain their real world application in QM and highlight their merits and weaknesses in the context of supporting QM

Advances in Mechanical and Materials Technology Kannan Govindan, Harish Kumar, Sanjay Yadav, 2022-01-01 This book presents select papers from the International Conference on Energy Material Sciences and Mechanical Engineering EMSME 2020 The book covers the three core areas of energy material sciences and mechanical engineering The topics covered include non conventional energy resources energy harvesting polymers composites 2D materials systems engineering materials engineering micro machining renewable energy industrial engineering and additive manufacturing This book will be useful to researchers and professionals working in the areas of mechanical and industrial engineering materials applications and energy technology

Designing Food Safety and Equipment Reliability Through Maintenance Engineering Sauro Riccetti, 2013-09-25 This book identifies a way to ensure food product safety through maintenance engineering Maintenance engineering normally starts with equipment reliability but this book starts from product safety to identify equipment criticalities and then maintenance solutions With its ability to integrate food safety techniques with reliability and maintenance engineering techniques this book will help readers identify a maintenance design and implementation process that can control food safety and equipment reliability in their organization

Lean Manufacturing. Step by step Luis Socconini , 2024-04-03 This is a practical entertaining and didactic book for those who are starting out in Lean culture The language used in the techniques and tools allows Lean Six Sigma management system to be understood easily and in addition establishes a methodology adaptable to any improvement process From the detailed knowledge of the processes Lean Manufacturing encourages innovation discipline and the continuous search for excellence through tools that improve the effectiveness of teams delivery times and on the whole the capacity and competitiveness of companies Step by step this book enables you to discover and apply material control and production techniques that increase quality improve communication and access to information and provide significant energy reductions The Lean Manufacturing system offers a methodology for manufacturing and the management of organizations focused on continuous improvement in line with the needs for efficiency and optimization of companies resources

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