

# Total Productive Maintenance (TPM)

Operational

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## Learning Objectives

1. Understand the concept and philosophy of TPM
2. Learn the 8 pillars of TPM activities and step-by-step implementation approach
3. Learn the TPM tools and be able to identify and eliminate loss
4. Learn how to kick-start TPM deployment with Autonomous Maintenance, Planned Maintenance, Focused Improvement, and Education & Training activities to improve equipment effectiveness
5. Understand the roles of a TPM implementation organization and the critical success factors

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## Outline

1. Overview of TPM
2. TPM Foundation: 5S & Visual Management
3. Key Tools for TPM
4. Equipment Loss Analysis & OEE
5. The Eight Pillars of TPM
6. TPM Implementation
7. JIPM TPM Excellence Award

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## Overview of TPM

### TPM Serves as the Foundation for Productivity Improvement Processes



Source: Society of Manufacturing Engineers (SME)

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# Total Productive Maintenance And Maintenance Management Powerpoint

**Society of Manufacturing Engineers**



## **Total Productive Maintenance And Maintenance Management Powerpoint:**

**Principles And Practice Of Total Productive Maintenance** BIKASH. BHADURY,2012      **Total Productive Maintenance For Organisational Effectiveness** Aftab Ahmad Niazi,2014-01-01 Rising costs domestic and international competition more demanding customers increasingly complex machines require safe uninterrupted operation consistent quality competitive pricing and timely deliveries Most effective operation and maintenance of machines and equipment assumes far greater importance in this situation While it is true that no one including various levels of management and workers want conflict loss of time due to breakdowns poor quality and accidents these continue to occur Top Management sometimes takes some initiatives like inviting consultants or getting people trained in specified areas However by and large the situation remains the same The reason therefore is not lack of desire to do well The fundamental malice is in the system of management It is this aspect that this book tries to address while also discussing some basic principles of maintenance It focuses on need and measures for enhancing effectiveness of the organization by evolving and implementing fundamental changes in managerial philosophy and practices Choice of the title of the book is very deliberate The whole approach discussed in the book is directed towards building a system and climate that would enable ensuring most effective operation and maintenance of capital equipment while also developing a collaborative and co ordinated functioning of various wings and levels in the organization Far too often people concerned want and try to achieve results like no breakdowns no rejects and no accidents quickly This book attempts to convey to them that quick fixes and quick results are not possible and that concentrated and committed effort is required over a long period of time to create conditions and environment for results It is in this context that while the book discusses various approaches to maintenance and describes some elementary techniques for planning it lays emphasis on the need for a change in management thinking and on involvement of all from top to the lowest for achieving desired results      **Maintenance Engineering and Total Productive Maintenance** Mr. Rohit Manglik,2024-07-28 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      Total Productive Maintenance in America Society of Manufacturing Engineers,1995 You ve heard the buzz about how TPM can minimize machine downtime while it maximizes productivity Now you can discover exactly how to integrate a TPM program into your workshop to make its implementation a bottom line success This book explains the subtle but distinct difference between TPM as an equipment management strategy and not a maintenance management program Being able to distinguish between these two mindsets can help your TPM program yield dramatic results One reading of this practical new reference can help you make the old saying good maintenance is good business a reality      **Total Productive Maintenance** Terry Wireman,2004 The financial approach to Total Production Maintenance      Total Quality Management Poornima M.

Charantimath,2011 The enlarged and revised second edition of Total Quality Management blends the fundamental principles and historical foundation of total quality with practical applications and examples The coverage of high performance practices and developments in the quality management arena enables students to develop a basic appreciation of quality management concepts while retaining their focus on the goal of continuous improvement Fundamentals of Port

Engineering Koos Schoonees,2023-12-21 Port engineering primarily deals with the design construction operation management and maintenance of ports overlapping with many other disciplines This book provides an introductory text to prospective graduate port engineers and presents a wide variety of port subjects for practicing engineers It covers almost all topics related to port engineering in a fundamental way including dredging marine aids to navigation environmental issues containers liquid bulk dry bulk general cargo multipurpose roll on roll off Ro Ro fishing and ferry terminals Discussions are targeted at a conceptual design level Other features Aspects of port engineering are discussed including shipping maritime trade environmental aspects such as climate change resilience of ports nature based solutions and port management such as security equipment slurry pumping and so forth Illustrates the design of port terminals Discusses site selection for a new port the factors to be considered and ways to compare different potential port sites Explores asset management and repair of marine structures Includes case studies from around the world examples and practical and user friendly guidelines

Maintenance for Profitability D. RAVICHANDAR,2022-07-19 The book covers from the maintenance angle Vision to Goals planning and organizing budgeting and controls some of the basics of various mechanical equipment with supporting systems common mistakes happening in the plants troubleshooting SOPs guidelines the role of maintenance in project planning and execution knowledge skill and competency requirement and gap analysis for training The KPI drill down from tasks and targets monitoring of KRAs and KPIs through Daily management and policy management etc with maintenance focus is addressed Continuous Improvement methodologies using 5S Kaizens TPM and TQM with live examples from companies are presented Digital transformation for asset management is addressed in brief Can be a good read for Industrial employees as well as a reference for Students **Advances in Production Management Systems: Innovative Production**

**Management Towards Sustainable Growth** Shigeki Umeda,Masaru Nakano,Hajime Mizuyama,Nironori Hibino,Dimitris Kiritsis,Gregor von Cieminski,2015-08-17 The two volumes IFIP AICT 459 and 460 constitute the refereed proceedings of the International IFIP WG 5 7 Conference on Advances in Production Management Systems APMS 2015 held in Tokyo Japan in September 2015 The 163 revised full papers were carefully reviewed and selected from 185 submissions They are organized in the following topical sections collaborative networks globalization and production management knowledge based production management project management engineering management and quality management sustainability and production management co creating sustainable business processes and ecosystems open cloud computing architecture for smart manufacturing and cyber physical production systems the practitioner s view on innovative production management

towards sustainable growth the role of additive manufacturing in value chain reconfiguration and sustainability operations management in engineer to order manufacturing lean production sustainable system design for green products cloud based manufacturing ontology aided production towards open and knowledge driven planning and control product service lifecycle management knowledge driven innovation and social implications and service engineering      *Equipment Management in the Post-Maintenance Era* Kern Peng, 2021-11-08 Recent advancements in information systems and computer technology have led to developments in equipment and robotic technology that have permanently changed the characteristics of manufacturing equipment *Equipment Management in the Post Maintenance Era Advancing in the Era of Smart Machines* introduces a new way of thinking to help high tech organizations manage an increasingly complex equipment base It also facilitates the fundamental understanding of equipment management those in traditional industries will need to prepare for the emerging microchip era in equipment Kern Peng shares insights gained through decades of managing equipment performance Using a systems model to analyze equipment management he introduces alternatives in equipment management that are currently gaining momentum in high tech industries The book highlights the fundamental internal flaw in maintenance organizational setup presents new approaches to replace maintenance functional setup and illustrates a time tested transformation and implementation process to help transition your organization from the maintenance era to the new post maintenance era Fundamentally it Breaks down the history of equipment into five phases Provides a clear understanding of equipment management fundamentals and Introduces alternatives in equipment management beyond the mainstream principles of maintenance management More specifically the book examines maintenance management logistics including planning and budgeting training and people development customer services and management vendor management and inventory management Supplying a comprehensive look at the history of equipment management it analyzes current maintenance practice and details approaches that can significantly improve the effectiveness and efficiency of your equipment management well into the future This second edition addresses the role of the development of the Internet of Things IoT and significant advancements in artificial intelligence AI and machine learning ML in enabling a new generation of smart machines which have in turn laid the foundation for Industry 4 0 Equipment utilizing IoT and sensors can monitor components and allow them to be serviced at an exact time without the need for a preventive maintenance schedule Moreover equipment replacement rarely occurs at the end of the piece of equipment s natural life rather replacement is driven by the introduction of new technologies and products all of which lead to less maintenance activities and reduces the importance of the traditional maintenance function Maintenance departments today operate with fewer employees and smaller budgets At a point when machines are smart enough to keep themselves running or equipment is rendered obsolete by better equipment in a short time such as with computers and cellphones companies do not need a maintenance department This updated edition reiterates the importance of transitioning to the post maintenance era to effectively manage

today's sophisticated smart yet expensive equipment. Many changes the author predicted a decade ago are accelerating in the IoT era. Equipment management is moving further away from the maintenance era and advancing deeper into the post maintenance era. The trend for smart machines is very clear and companies that do not upgrade their equipment will lose their competitiveness. As equipment and factories become smarter, companies must change their practices and organizational structures to manage the new generation of equipment for Industry 4.0.

**Management for Engineers, Technologists and Scientists** Wilhelm Nel, 2007-04. Addressing the specific needs of engineers, scientists and technicians, this reference introduces engineering students to the basics of marketing, human resource management, employment relations, personnel management and financial management. This guide will help engineering students develop a sense for business and prepare them for the commercial and administrative dealings with customers, suppliers, contractors, accountants and managers.

*Total Quality Management* D.R. Kiran, 2016-10-28. Total Quality Management: Key Concepts and Case Studies provides the full range of management principles and practices that govern the quality function. The book covers the fundamentals and background needed as well as industry case studies and comprehensive topic coverage, making it an invaluable reference to both the novice and the more experienced individual. Aspects of quality control that are widely utilized in practice are combined with those that are commonly referred to on University courses and the latest developments in quality concepts are also presented. This book is an ideal quick reference for any manager, designer, engineer or researcher interested in quality. Features two chapters on the latest ISO standards. Includes an introduction to statistics to help the reader fully grasp content on statistical quality control. Contains case studies that explore many TQM themes in real life situations.

Four Practical Revolutions in Management Alan Graham, Shoji Shiba, David Walden, 2001-04-24. In *Four Practical Revolutions in Management Systems for Creating Unique Organizational Capability*, authors Shoji Shiba and David Walden significantly revise their classic text on leading management systems. A New American TQM. This book is a comprehensive approach to business management that goes beyond business operations improvement. The authors demonstrate a program for establishing a sophisticated state-of-the-art management system that creates unique organizational capabilities. Containing new methodologies and case studies, the book is one of the most extensive in the management field and provides a step-by-step program for implementing leading management techniques. To create a successful management system, the authors argue that companies must be organized around four major areas of practice called the four revolutions: They are customer focus, continuous improvement, total participation and societal networking. For each of the areas, the book presents proven methods that enable dynamic implementation strategies.

**Customer Focus** Any effective management system begins with the customer. Companies must learn to integrate a customer's concerns into their own. The book presents how to embrace the market in concept and integrate the other skills in the book into a management strategy that focuses on the customer.

**Continuous Improvement** For a company to be successful in the 21st century, it must continually improve its processes to

meet the ever changing needs of the customer This book introduces important tools for process discovery management and improvement In the process it moves beyond reactive improvement methods to proactive improvement efforts Total Participation The key to creating a dynamic management system is employee participation Employees are the ones who work on the issues of quality and customer satisfaction on a daily basis This book presents skills such as hoshin management team building creating structures for mobilization and leading change and breakthrough Societal Networking Besides a company's internal audience another source of business improvement ideas is societal networking This is the set of companies customers and suppliers associated with any organization that can learn from the experiences of these groups To develop these valuable resources into a comprehensive management strategy the book covers mutual learning methods as well as keys for integrating various management methodologies This book includes Hoshin management PDCA plan do check act cycle 7 step method of reactive improvement Proactive improvement to develop new products Engaging people in a changing environment Focused strategies for phase in Leading process improvement The practice of breakthrough Over thirty thorough case studies

*Four Practical Revolutions in Management* Shoji Shiba, David Walden, 2007-07-24 Shiba and Walden have significantly revised their classic *A New American TQM* With new methodologies and case studies this work is one of the most comprehensive studies of management theory and business success The authors identify a comprehensive approach to management that goes beyond operations improvement to help executives and manage

**TPM for the Lean Factory** Keisuke Arai, 2017-10-06 Lean manufacturing cannot happen in a factory that lacks dependable effective equipment Breakdowns and processing defects translate into excess work in process and finished inventory kept on hand just in case Recurring minor stoppages force employees to watch automated equipment that should run by itself TPM gives a framework for addressing such problems but many companies implement TPM at a superficial level and the resulting productivity gains fall short of their potential If your TPM implementation has resulted in posters and logos rather than a rise of productivity how are you addressing this halt of progress In *TPM for the Lean Factory* authors Sekine and Arai teach you to identify and attack the key equipment related problems and misunderstandings that make plants miss their lean manufacturing goals Written for companies with a basic TPM framework already in place you'll learn three powerful approaches for cutting this waste The new 5Ss focusing on standard locations and labeling through the first 2Ss Instant maintenance mastering quick repairs of minor equipment failures Improved setup operations organizing the preparation to save time and prevent errors Chapters on cell design product and process quality factor testing and daily equipment inspection give you additional weapons for fighting waste and low productivity For practical application an implementation overview summarizes the steps for each topic keyed to a set of 50 adaptable worksheets and examples A practical and supportive resource *TPM for the Lean Factory* extends a fresh vision and focus to help you get top results from your TPM efforts

**Asset Maintenance Management** Alan Wilson, 2002 Edited by an expert in the maintenance field this wide ranging reference includes in depth

contributions from leading professionals consultants university instructors and experts in specific maintenance techniques It provides companies with the methods strategies and practices that will help efficiently and effectively direct and shape their asset management operations

**Planning and Control of Maintenance Systems** Salih Duffuaa,A. Raouf,John Dixon Campbell,1999 Planning and Control of Maintenance Systems is the first book to address maintenance and repair from an engineering perspective Using the innovative concept of total productive maintenance TPM and written by three renowned experts in statistics operations research and engineering it is an essential tool for planning a maintenance system using statistical and optimization techniques in order to avert equipment failure Suitable for engineers and managers in capital intensive industry as well as for first year graduate students and undergraduates in mechanical or industrial engineering

**Production Planning and Control** D.R. Kiran,2019-06-18 Production Planning and Control draws on practitioner experiences on the shop floor covering everything a manufacturing or industrial engineer needs to know on the topic It provides basic knowledge on production functions that are essential for the effective use of PP C techniques and tools It is written in an approachable style thus making it ideal for readers with limited knowledge of production planning Comprehensive coverage includes quality management lean management factory planning and how they relate to PP C End of chapter questions help readers ensure they have grasped the most important concepts With its focus on actionable knowledge and broad coverage of essential reference material this is the ideal PP C resource to accompany work research or study Uses practical examples from the industry to clearly illustrate the concepts presented Provides a basic overview of statistics to accompany the introduction to forecasting Covers the relevance of PP C to key emerging themes in manufacturing technology including the Industrial Internet of Things and Industry 4 *The Portal to Lean Production* John Nicholas,Avi Soni,2005-11-02 The Portal to Lean Production Principles and Practices for Doing More with Less describes the steps difficulties and rewards of implementing lean production The book moves beyond concepts to address practical matters The authors provide enough information for you to begin implementing lean production within your organization This book

*Enterprise Resource Planning* EduGorilla Prep Experts,2024-06-11 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



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