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# Oee For Operators Overall Equipment Effectiveness The Shopfloor Series

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Autonomous Maintenance in Seven Steps  
Maximize the Effective Power of Oee Analysis  
Source Inspection and the Poka-Yoke System  
The Visual Factory  
Total Productive Maintenance  
Eight Steps to Planning, Mapping, and Sustaining Lean Improvements  
Total Productive Maintenance  
Understanding, Measuring, and Improving Overall Equipment Effectiveness  
The Shingo System of Continuous Improvement  
Successful Equipment Management at Agilent Technologies  
Total Productive Maintenance  
Kaizen for Quick Changeover  
The Philosopher's Stone for Sustainability  
Overall Equipment Effectiveness  
The Unshackled Organization  
Overall Equipment Effectiveness (OEE). Approaches for Improvement  
Overall Equipment Effectiveness  
Proceedings of the 4th CIRP International Conference on Industrial Product-Service  
Systems, Tokyo, Japan, November 8th - 9th, 2012  
Kanban for the Shopfloor  
OEE for Operators  
The ZQC System  
Autonomous Maintenance for Operators  
How to Use OEE to Drive Significant Process Improvement  
TPM for Workshop Leaders  
Facing the Challenge of Unpredictability Through Spontaneous Reorganization  
TPM Reloaded  
Introduction to TPM  
Going Beyond SMED  
TPM in Process Industries  
Maintenance and Reliability Best Practices  
7 Autonomous Maintenance Steps Poster  
TPM Development Program  
The SMED System  
Straight Talk on Cultivating Support and Buy-in  
TPM for Workshop Leaders  
Operations Management  
Implementing TPM on the Shop Floor

The Lean Business Guidebook  
Standard Work for the Shopfloor  
Implementing Total Productive Maintenance

*Oee For  
Operators  
Overall  
Equipment  
Effectiveness  
The Shopfloor  
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**BRUNO SHARP**

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*Autonomous Maintenance in Seven Steps* CRC Press  
Agilent Technologies, formerly Hewlett-Packard's Test and Measurement Division, operates an integrated circuit fabrication plant in Fort Collins, Colorado. Guided by Masaji Taijiri, the author of *7 Steps to Autonomous Maintenance* (see page 34), author Jim Leflar and his team at Agilent developed a complete TPM program for the complex equipment on their shop floor. Drawn from these experiences, *Practical TPM* is a must read for anyone who wants to begin successful TPM implementation. Part I explains the fundamental concepts of TPM, including the six basic principles of TPM, the goals of TPM, cultural changes resulting from TPM, and the keys to successful implementation. Part II — the heart of the book — describes, in step-by-step detail, the evolution of

Agilent's TPM program. Each phase is clearly defined and demonstrated; the working tools and systems developed by the Agilent TPM team in the process are discussed at length. To conclude, Part III focuses on developing a vision and a strategy for your own successful TPM program. Replete with annotated photographs and illustrations documenting Agilent's successful program, *Practical TPM: Successful Equipment Management at Agilent Technologies* offers an invaluable roadmap to TPM implementation. The book covers: A step-by-step TPM program as implemented at a major US corporation The 5-why analysis method Examples of one-point lessons Using visual controls in a TPM program Tools for understanding equipment failures Improving machine productivity Improvement metrics Master checklists and forms Developing activity boards Appendices containing examples of maintenance training materials For a PDF file with the preface

and table of contents click here. For a PDF file with the first chapter click here.

[Maximize the Effective Power of Oee Analysis](#)

Productivity Press  
TPM (Total Productive Maintenance) is an innovative approach to maintenance. This book introduces TPM to managers and outlines a three-year program for systematic TPM development and implementation.

[Source Inspection and the Poka-Yoke System](#)

Routledge  
dtPublisher's Message  
In a time when managers are scrambling to find methods to maneuver through the madness of a completely unpredictable business environment, Jeffrey Goldstein's answers are surprising, challenging, and sometimes controversial. But when applied, they reveal the key to highly refined organization functioning. In *The Unshackled Organization*, consultant and management professor Jeffrey Goldstein examines new territory with his exploration into how change happens

within an organization. Utilizing leading-edge scientific and social theories about change, including non-linear, far-from-equilibrium, chaos theory, and system dynamics, Goldstein shows that only through "self-organization" can natural, lasting change occur. The theory behind "self-organization" arises from the idea of allowing and even amplifying unpredictable fluctuation rather than abolishing or controlling it. In other words, don't fight it! Change imposed from above often is not accepted with open arms by employees. But out of the chaos of change that emerges from within the organization will come long-lasting, structural improvements instead of short-term, Band-Aid solutions. This is a dramatic new way of looking at change, one that means rethinking how change happens within an organization and how you can encourage the process. This book is a pragmatic guide for managers, executives, consultants, and other change agents. More than an academic discourse on a new theory of change, it is filled with real-world examples about diverse types of change in a

variety of business and service organizations. This is information you can start using today to support true change within your organization. Contents Publisher's Message Preface Chapter One: New Wine Skins Chapter Two: Growth in Nonlinear Systems Chapter Three: The Dynamics of Self-Organization Chapter Four: From Resistance to Attraction Chapter Five: The Equilibrium Effect of Self-Fulfilling Prophecies Chapter Six: Generating Far-From-Equilibrium Conditions Chapter Seven: Working With Boundaries Chapter Eight: Differences That Make A Difference Chapter Nine: The Cauldron of Change Chapter Ten: The Magic Theatre Epilogue Notes About the Author Index **The Visual Factory** CRC Press This book covers a variety of topics in material, mechanical, and management engineering, especially in the area of machine design, product assembly, measurement systems, process planning and quality control. It describes cutting-edge methods and applications, together with exemplary case studies. The content is based on papers presented at the 5th

International Scientific-Technical Conference (MANUFACTURING 2017) held in Poznan, Poland on 24-26 October 2017. The book brings together engineering and economic topics, is intended as an extensive, timely and practice-oriented reference guide for researchers and practitioners, and is expected to foster better communication and closer cooperation between universities and their business and industry partners. *Total Productive Maintenance* Productivity Press Workshop leaders play a central role in your company's efforts to implement TPM. Once your workers have been divided into small groups to learn the fundamentals of TPM, it is the group leader who spearheads ongoing training and implementation activities. With quick-reading, people-oriented practicality, this new book addresses the role of the workshop leader in maximizing the benefits of TPM. A top TPM consultant in Japan, Kunio Shirose: Incorporates cartoons and graphics to convey the hands-on leadership issues of TPM implementation Uses case

studies to reinforce his ideas on training and managing equipment operators in the care of their equipment. It itemizes specific activities that must be undertaken to search out, correct, and control defects to remedy equipment shortcomings. He also addresses the cooperative relationship necessary between maintenance and production and leaves you with an understanding of the three imperatives for successful TPM implementation to change the quality and functioning of the equipment, the way operators think about equipment, and the workplace. (Originally published by the Japan Management Association.)

**Eight Steps to Planning, Mapping, and Sustaining Lean Improvements** Springer Science & Business Media

This is a challenging, innovative, and timely new look at implementing Total Productive Maintenance (TPM) by one of the field's leading trainers and authors. The book takes into account the economic upheavals of recent years and demonstrates that TPM is less about moving maintenance tasks to

operations than moving accountability for aggregate output of the plant to operators. The author goes on to show that effective TPM - TPM reloaded -- requires a radical difference in management's view of the worker and even tougher, a radical change in the way workers view their own role.

*Total Productive Maintenance* Productivity Press

The Zero Quality Control System (ZQC) is a mistake-proofing approach that prevents defects by monitoring processing conditions at the source and correcting errors that cause defects. Since it is human nature to make mistakes, ZQC does not blame people for errors, but instead finds ways to keep errors from becoming defects. In this breakthrough approach, mistake-proofing devices called poka-yoke are used to check and give feedback about each product or operation in the process, not just a sample. This book introduces operators and assembly workers to the basic methodology of ZQC in an easy-to-read format that covers all aspects of this important manufacturing improvement strategy.

Mistake-Proofing for Operators includes the instructional features that are the signature of the Shopfloor Series. In this series Productivity Press has taken the lead in adult education by teaming with instructional designers to develop complete programs for frontline learning. The goal: to place powerful and proven improvement tools such as ZQC and mistake-proofing in the hands of your company's entire workforce. Winner of the 1990 Shingo Prize for Excellence in Manufacturing, Mistake-Proofing for Operators is based on Zero Quality Control: Source Inspection and the Poka-Yoke System by Shigeo Shingo

**Understanding, Measuring, and Improving Overall Equipment Effectiveness** Industrial Press Inc.

Overall Equipment Effectiveness (OEE) is a crucial measure in TPM that reports on how well equipment is running. It factors three elements --- the time the machine is actually running, the quantity of products the machine is turning out, and the quantity of good output - into a single combined score. Directly addressing those who are

best positioned to track and improve the effectiveness of equipment, OEE for Operators defines basic concepts and then provides a systematic explanation of how OEE should be applied to maximize a piece of equipment's productivity and recognize when its efficiency is being compromised. Features The Shingo System of Continuous Improvement CRC Press

Shingo, whose work at Toyota provided the foundation for JIT, teaches how to implement non-stock production in your JIT manufacturing operations. The culmination of his extensive writings on efficient production management and continuous improvement, this book is an essential companion volume to his other landmark books on key elements of JIT, including SMED and poka-yoke. It includes: Fundamental flaws in European and American production philosophies. Basic concepts for improving production systems. The "scientific thinking mechanism" -- a new approach to improvement. Implementing a production method in an

age of authorized stock production. Development of production functions in the age of non-stock production. Significance of the different production systems.

*Successful Equipment Management at Agilent Technologies CreateSpace*

Kanban is the name given to the inventory control card used in a pull system. The primary benefit of kanban is to reduce overproduction, the worst of the seven deadly wastes. A true kanban system produces exactly what is ordered, when it is ordered, and in the quantities ordered. It is essentially a dynamic work order that moves with the material. Each kanban identifies the part or subassembly unit and indicates where each one came from and where each is going. Used this way, kanban acts as a system of information that integrates your plant, connects all processes one to another, and connects the entire value stream to customer demand. Kanban for the Shopfloor provides a working manual for those seeking to implement this method of production control in any operation. It defines the various terms and methods employed in kanbans, and illustrates

how when adhered to, kanban is an element of continuous improvement that ultimately leads to the ideal of one-piece flow." In addition to reducing the waste of overproduction, kanban will help your company increase flexibility to respond to customer demand, coordinate production of small lots and wide product variety, and simplify the procurement process. About the Shopfloor Series: Put proven improvement tools in the hands of your entire workforce! Progressive shopfloor improvement techniques are imperative for manufacturers who want to stay competitive and to achieve world class excellence. And it's the comprehensive education of all shopfloor workers that ensures full participation and success when implementing new programs. The Shopfloor Series books make practical information accessible to everyone by presenting major concepts and tools in simple, clear language and at a reading level that has been adjusted for operators by skilled instructional designers. One main idea is presented every two to four pages so that the

book can be picked up and put down easily. Each chapter begins with an overview and ends with a summary section. Helpful illustrations are used throughout. Other topics in the Shopfloor Series: Kanban, 5S, Quick Changeover, Mistake-Proofing, Just-in-Time, TPM, Cellular Manufacturing *Total Productive Maintenance* CRC Press

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.

Kaizen for Quick Changeover GRIN Verlag

In his latest offering, John Davis tackles the "human" side of a lean initiative -- cultivating a lean culture and gaining employee buy-in. How managers deal with these issues will ultimately determine their success. *Leading the Lean Initiative: Straight Talk on Cultivating Support and Buy-in* shows you how to lead a lean effort and effectively manage change. It is a practical manual for the new manager. Though directed at plant managers, and specifically those new to their jobs, this book

benefits anyone taking on a leadership role. Davis provides complete direction on the crucial first steps and advise on competently responding to the "unknown and unexpected." In addition the book covers how to: Gain the respect and active support of the workforce. Work effectively with unions and customers. Create a culture for change. Actively seek out key people in your organization. Diplomatically buck the system. Extend lean to the entire enterprise. Develop and effectively earmark your plan for operation. Cultivate a winning relationship with your boss. Deal with major setbacks in business conditions. Throughout the text, Davis weaves the story of Jim Warring, a plant manager who is new to the job, detailing his frustrations, challenges, and accomplishments, and how he handles the daily responsibilities of a plant manager. At the end of each chapter, Davis rates Warring on how he performed in his role as plant manager and as a leader of the plant's lean initiative by presenting "The Warring Scorecard." Davis points out where he

succeeded, and where he made some serious mistakes. *Leading the Lean Initiative: Straight Talk on Cultivating Support and Buy-in*, is a valuable resource for all managers in any industry. This book will show you how to effectively lead in your organization and how to cultivate a cooperative environment. *The Philosopher's Stone for Sustainability* CRC Press

Workshop leaders play a central role in your company's efforts to implement TPM. Once your workers have been divided into small groups to learn the fundamentals of TPM, it is the group leader who spearheads ongoing training and implementation activities. With quick-reading, people-oriented practicality, this new book addresses the role of the workshop leader in maximizing the benefits of TPM. A top TPM consultant in Japan, Kunio Shirose: Incorporates cartoons and graphics to convey the hands-on leadership issues of TPM implementation Uses case studies to reinforce his ideas on training and managing equipment operators in the care of their equipment Itemizes specific activities that

must be undertaken to search out, correct, and control defects to remedy equipment shortcomings. He also addresses the cooperative relationship necessary between maintenance and production and leaves you with an understanding of the three imperatives for successful TPM implementation to change the quality and functioning of the equipment, the way operators think about equipment, and the workplace. (Originally published by the Japan Management Association.)

**Overall Equipment Effectiveness** CRC Press  
OEE for Operators Overall Equipment Effectiveness Productivity Press

*The Unshackled Organization* OEE for Operators Overall Equipment Effectiveness Changeovers in 3 minutes or less! That is the result of the process described in this book. Picking up where Dr. Shingo's Single Minute Exchange of Die left off, it streamlines the process even further to reduce changeover time and cut staffing requirements in half simultaneously! The book describes how to achieve quick changeover in virtually any type of

production environment with: A succinct 8-step process for setup improvement. 9 basic principles for eliminating changeover waste. The book first outlines the tactical principles for improving the three phases of the changeover procedure. Next you'll learn how to improve changeover on a processing line. All of the ideas presented are based on kaizen improvements that require very little, if any, expenditure. Process razing and the implementation of one-piece flow are also examined as means for eliminating wasteful transportation and searching.

**Overall Equipment Effectiveness (OEE). Approaches for Improvement** Routledge  
Performance . . . downtime . . . quality . . . availability . . . defects . . . How well do you know your machines? Do you truly know how substantial your equipment-related losses are? Calculating overall equipment effectiveness is a crucial element of any serious commitment to reduce equipment- and process-related wastes through Total Productive Maintenance and other lean manufacturing

methods. Success with TPM, in particular, depends on consistently and accurately measuring machine and process performance. "OEE Toolkit: Practical Software for Measuring Overall Equipment Effectiveness" provides detailed information daily on how effectively your machines are running by quantifying and visually highlighting where losses in availability, speed, and quality occur and how they impact overall equipment effectiveness. This calculation, made easy by the OEE Toolkit software, provides a powerful performance measurement on which you can base systematic, focused improvement efforts. Capturing and processing performance data on critical machines is challenging. Daily data collection and analysis often involve time-consuming and costly processes. Now, Productivity's OEE Toolkit eliminates most of the burden of data processing. The OEE Toolkit's emphasis on visual management helps you get more information from collected data. You enter very small amounts of data, the OEE Toolkit does the calculations and analysis for you, and you

get more information about your machine performance than you ever thought possible. In today's competitive environment you cannot settle for a goal less ambitious than the total elimination of breakdowns and other losses. You can't improve what you don't measure, and OEE is a powerful indicator of where your losses are occurring. The fine-tuned, automated analysis of the OEE Toolkit pinpoints where to make improvements that will significantly impact your bottom line. There are no excuses for ineffective equipment, only causes. Expose those causes and root them out today with the OEE Toolkit. Key Benefits: One universal tool -- processes information about machines through the same interface (Basic package covers 10 machines) Calculates losses in availability, performance, and quality Easy to learn and use Every operator can participate Minimal input, maximal information Flexible to the needs of the user Lets you measure the performance of many machines Supports operators in learning about equipment and focusing on the losses

Expandable to future needs Key Features: Data-entry screen designed for optimal speed and ease of use Extensive data analysis for concrete information to pinpoint the causes of losses Standardized reporting formats for effective comparisons of equipment effectiveness Color-coded visual control features for determining at a glance whether OEE is in your acceptable range Many ways to analyze and look at data, including: Bar/line graphs of OEE and its components for a specific shift or team for a specific day or period Bar/line graphs of OEE trends over time Bar graphs of OEE and losses in effectiveness over time Pareto charts for time use categories, sorted by minutes, frequency, and average duration Bar graph of specific time use categories over time Commonly used reliability and maintainability indicators: mean time between failures, failure frequency rate, mean time to repair, and failure rate Mountain graph of production output (good product, scrap, rework) over time Bar graph of production and on status (in relation to user-defined target output for

each machine) for all machines tracked during a period Pie chart of utilization categories Contents Software CD 112-page manual System Requirements Personal computer with 100 MHz (or higher) Pentium processor 16 Mbytes or more of system RAM 10 Mbytes free hard disk space SVGA 800 x 600 video adapter 4X CD-ROM DRIVE Microsoft Windows-supported color printer Windows 95, Windows 98, or Windows NT 4.0 (with Service Pack 2 or greater) ABOUT THE AUTHOR Arno Koch has been involved in the information technology field for over ten years and has trained hundreds of people in the fields of automation and systems administration and participated in numerous IT projects. He currently is a senior consultant with Blom Consultancy, Netherlands, Europe's leading World Class Manufacturing consultancy bureau. There, he merges his knowledge of IT, administration, and management with the Japanese approach to making systems work. Call your Productivity Press Account Manager at 800-394-6868 about multiple-user licensing and network pricing. Includes:



Software CD, 112-page manual, 30 days phone and email technical support Basic package tracks 10 machines. Call for pricing for additional machines

### **Overall Equipment**

**Effectiveness** CRC Press 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 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 *Proceedings of the 4th CIRP International Conference on Industrial Product-Service Systems, Tokyo, Japan, November 8th - 9th, 2012* Productivity Press Understanding, Measuring, and Improving Overall Equipment Effectiveness: How to Use OEE to Drive Significant Process Improvement explains why the Overall Equipment Effectiveness

(OEE) measure was created and how it should be used. Based on 20 years of hands on experience applying OEE at over 150 sites, this step-by-step practical guide provides templates, assessments, a comprehensive loss-analysis framework to identify all possible variables that could affect OEE, and supporting spreadsheets to measure and improve OEE. It outlines the different operational situations in which OEE can foster improvements, and the implications, before providing an easy-to-understand template for creating appropriate definitions for all the losses and a loss model. The author explains how to calculate OEE using examples to improve performance, and then shows, in detail, how to use an OEE Loss Analysis Spreadsheet to understand all losses, set an ideal vision, and then classify losses so improvement can be approached in the most sustaining way.

### **Kanban for the Shopfloor**

CRC Press Completely revised and updated, this new edition of a classic reference focuses on the financial approach to the subjecta

methodology that produces quantifiable results allowing a TPM program to be sustainable. And while clarifying what TPM is and what it is not, it clearly presents the economic value of TPM and shows how to calculate the Return on Investment (ROI) that a company can expect. It is the perfect resource for anyone who is considering implementing TPM or looking for ways of improving their current process.

*OEE for Operators*

Springer Science & Business Media

Standard work is an agreed upon set of work procedures that effectively combines people, materials, and machines to maintain quality, efficiency, safety, and predictability. Work is described precisely in terms of cycle time, work

in process, sequence, time, layout, and the inventory needed to conduct the activity. Standard work begins as an improvement baseline and evolves into a reliable method. It establishes the best activities and sequence steps to maximize performance and minimize waste. In this book you will learn about: The characteristics of standards Key benefits and applications of standardization Standard work concepts and calculations Standard work steps and documentation Using standard work manuals, charts, and worksheets Cell staffing (line balancing and full work) Productivity's Shopfloor Seriesbooks offer a simple, cost-effective approach for building basic knowledge about key manufacturing improvement topics. Like all our Shopfloor

Seriesbooks, Standard Work for the Shopfloor includes innovative instructional features that are the signature of the Shopfloor Series. The goal: to place powerful and proven improvement tools such as pull production techniques in the hands of your entire workforce. Productivity's Shopfloor Seriesbooks offer a simple, cost-effective approach for building basic knowledge about key manufacturing improvement topics. Like all our Shopfloor Seriesbooks, Standard Work for the Shopfloor includes innovative instructional features that are the signature of the Shopfloor Series. The goal: to place powerful and proven improvement tools such as pull production techniques in the hands of your entire workforce.

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- [Love You Forever By Robert Munsch](#)
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- [Regretting You](#)
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