

# OEE for Operators: Overall Equipment Effectiveness (The Shopfloor Series)

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# Oee For Operators Overall Equipment Effectiveness The Shopfloor Series

**Shigeo Shingo**



## **Oee For Operators Overall Equipment Effectiveness The Shopfloor Series:**

**OEE for Operators** Productivity Press Development Team, 1999-08-27 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 **A Study of the Toyota Production System** Shigeo Shingo, Andrew P. Dillon, 1989-10-01 This is the green book that started it all the first book in English on JIT written from the engineer's viewpoint When Omark Industries bought 500 copies and studied it companywide Omark became the American pioneer in JIT Here is Dr Shingo's classic industrial engineering rationale for the priority of process based over operational improvements in manufacturing He explains the basic mechanisms of the Toyota production system examines production as a functional network of processes and operations and then discusses the mechanism necessary to make JIT possible in any manufacturing plant Provides original source material on Just In Time Demonstrates new ways to think about profit inventory waste and productivity Explains the principles of leveling standard work procedures multi machine handling supplier relations and much more If you are a serious student of manufacturing you will benefit greatly from reading this primary resource on the powerful fundamentals of JIT **TPM for Workshop Leaders** Shirose Kunio, 2017-10-06 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 ***Kaizen for Quick Changeover*** Keisuke Arai, Kenichi Sekine, 1992-09-01 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

**A Revolution in Manufacturing** Shigeo Shingo,2019-01-22 Written by the industrial engineer who developed SMED single minute exchange of die for Toyota A Revolution in Manufacturing provides a full overview of this powerful just in time production tool It offers the most complete and detailed instructions available anywhere for transforming a manufacturing environment in ways that will speed up produ

Non-Stock Production Shigeo Shingo,1988-06-01 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

*The Unshackled Organization* Jeffrey Goldstein,1994-05-01 dtPublisher s MessageddIn 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** Michel Greif, 2017-12-01 If you are aware of the tremendous improvements achieved in productivity and quality as a result of employee involvement then you will appreciate the great value of creating a visual factory This book explains why conventional work areas where fragmented information flows from top to bottom must be replaced by the visual workplace where information flows in every direction It details how visual management can make the factory a place where workers and supervisors freely communicate so that every employee can take improvement action The author's year long worldwide research resulted in an abundance of practical recommendations The communication techniques he suggests will Foster cohesion within groups of employees Turn fault based into fact based communication Overcome such problems as absenteeism and high defect rates Stimulate an unending flow of suggestions from employees A valuable resource for plant operations and human relations managers this text discusses how successful companies develop meeting and communication areas communicate work standard production controls such as kanban and make goals and progress visible Over 200 diagrams and photos illustrate the numerous visual techniques discussed

Zero Quality Control Shigeo Shingo, 1986-04-01 A combination of source inspection and mistake proofing devices is the only method to get you to zero defects Shigeo Shingo shows you how this proven system for reducing errors turns out the highest quality products in the shortest period of time Shingo provides 112 specific examples of poka yoke development devices on the shop floor most of them costing less than 100 to implement He also discusses inspection systems quality control circles and the function of management with regard to inspection

**Practical TPM** James Leflar, 2001-01-05 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 *Kanban Just-in Time at Toyota* JapanManagementAssociation,2018-02-06 Toyota's world renowned success proves that just in time JIT makes other manufacturing practices obsolete This simple but powerful book is based on the seminars given by Taiichi Ohno and other senior production staff to introduce Toyota's own supplier companies to JIT It teaches the philosophy and implementation of what many call the most efficient production system in the world Provides a clear structure for an introductory JIT training program Explains every aspect of the JIT system including how to set it up and how to refine it once it's in place Shows how to use a simple visual system to control the production process Every day more American companies are learning that JIT works outside Japan Now you can get started with this step by step book which guides you through the implementation process Every engineer manager supervisor and worker should read this book to get the clearest simplest and most complete introduction to JIT available in English Results at American companies after reading this book Lead time on one product was reduced from 12 weeks to 4 days Setup time on a large blanking press was reduced from eight hours to one minute and four seconds Work in process has been reduced 50 percent plant wide Factory floor space was opened up 30 to 40 percent in every one of their plants **Leading the Lean Initiative** John W. Davis,2001-05-31 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 **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      Poka-Yoke Nikkan Kogyo Shimbun, 1989-02-01 If your goal is 100% zero defects here is the book for you a completely illustrated guide to poka yoke mistake proofing for supervisors and shop floor workers Many poka yoke ideas come from line workers and are implemented with the help of engineering staff or tooling or machine specialists The result is better product quality and greater participation by workers in efforts to improve your processes your products and your company as a whole The first section of the book uses a simple illustrated format to summarize many of the concepts and main features of poka yoke The second section shows 240 examples of poka yoke improvements implemented in Japanese plants The book Organizes examples according to the broad issue or problem they address Pinpoints how poka yoke applies to specific devices parts and products categories of improvement methods and processes Provides sample improvement forms for you to sketch out your own ideas Use Poka yoke in study groups as a model for your improvement efforts It may be your single most important step toward eliminating defects completely For an industrial engineering perspective on how source inspection and poka yoke can work together to reduce defects to zero see Shigeo Shingo's Zero Quality Control      *Manufacturing Performance Management using SAP OEE* Dipankar Saha, Mahalakshmi Syamsunder, Sumanta Chakraborty, 2016-06-07 Learn how to configure implement enhance and customize SAP OEE to address manufacturing performance management Manufacturing Performance Management using SAP OEE will show you how to connect your business processes with your plant systems and how to integrate SAP OEE with ERP through standard workflows and shop floor systems for automated data collection Manufacturing Performance Management using SAP OEE is a must have comprehensive guide to implementing SAP OEE It will ensure that SAP consultants and users understand how SAP OEE can offer solutions for manufacturing performance management in process industries With this book in hand managing shop floor execution effectively will become easier than ever Authors Dipankar Saha and Mahalakshmi Symsunder both SAP manufacturing solution experts and Sumanta Chakraborty product owner of SAP OEE will explain execution and processing related concepts manual and automatic data collection through the OEE Worker UI and how to enhance and customize interfaces and dashboards for your specific purposes You ll learn how to capture and categorize production and loss data and use it effectively for root cause analysis In addition this book will show you Various down time handling scenarios How to monitor calculate and define standard as well as industry specific KPIs How to carry out standard operational analytics for continuous improvement on the shop floor at local plant level using MII and SAP Lumira and also global consolidated analytics at corporation level using SAP HANA Steps to benchmark manufacturing performance to compare similar manufacturing plants performance leading to a more efficient and effective shop floor Manufacturing Performance Management using SAP OEE will provide you with in depth coverage of SAP OEE and how to

effectively leverage its features This will allow you to efficiently manage the manufacturing process and to enhance the shop floor s overall performance making you the sought after SAP OEE expert in the organization What You Will Learn Configure your ERP OEE add on to build your plant and global hierarchy and relevant master data and KPIs Use the SAP OEE standard integration SAP OEEINT to integrate your ECC and OEE system to establish bi directional integration between the enterprise and the shop floor Enable your shop floor operator on the OEE Worker UI to handle shop floor production execution Use SAP OEE as a tool for measuring manufacturing performance Enhance and customize SAP OEE to suit your specific requirements Create local plant based reporting using SAP Lumira and MII Use standard SAP OEE HANA analytics Who This Book Is For SAP MII ME and OEE consultants and users who will implement and use the solution      **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      *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      *Smart Services Summit* Jürg Meierhofer,Shaun West,Thierry Buecheler,2023-08-29 This book presents up to date descriptions of smart services innovations in industry supported by new scientific approaches It summarizes the outcomes of the fourth Smart Services Summit held in Zurich in October 2022 which primarily focused on how smart services can promote sustainability As smart services accelerate new technologies can be leveraged to create new value propositions and business models that deliver tangible sustainability outcomes This book addresses social economic and environmental aspects of sustainability in connection with new technologies It includes contributions on how the quality and value of services are affected by digital technologies how collaboration affects shared value creation and how organizations can be enabled to drive digital value creation Given its scope the book represents an indispensable guide for practitioners and advanced students alike      **Advances in Production Management Systems. Production Management**



**Systems for Volatile, Uncertain, Complex, and Ambiguous Environments** Matthias Thüerer, Ralph Riedel, Gregor von Cieminski, David Romero, 2024-09-05 The six volume set IFIP AICT 728 729 constitutes the refereed proceedings of the 43rd IFIP WG 5.7 International Conference on Advances in Production Management Systems APMS 2024 held in Chemnitz Germany during September 8-12, 2024. The 201 full papers presented together were carefully reviewed and selected from 224 submissions. The APMS 2024 conference proceedings are organized into six volumes covering a large spectrum of research addressing the overall topic of the conference: Production Management Systems for Volatile, Uncertain, Complex, and Ambiguous Environments. Part I: advancing eco-efficient and circular industrial practices, barriers and challenges for transition towards circular and sustainable production processes and servitized business models implementing the EU green deal challenges and solutions for a sustainable supply chain risk analysis and sustainability in an uncertain system in a digital era. Part II: smart and sustainable supply chain management in the society 5.0 era, human-centred manufacturing and logistics systems design and management for the operator 5.0, inclusive work systems design applying technology to accommodate individual workers' needs, evolving workforce skills and competencies for industry 5.0, experiential learning in engineering education. Part III: lean thinking models for operational excellence and sustainability in the industry 4.0 era, human in command operator 4.0, 5.0 in the age of AI and robotic systems, hybrid intelligence decision making for AI-enabled industry 5.0, mechanism design for smart and sustainable supply chains. Part IV: digital transformation approaches in production and management, new horizons for intelligent manufacturing systems with IoT, AI and digital twins. Part V: smart manufacturing assets as drivers for the twin transition towards green and digital business engineering and managing AI for advances in asset lifecycle and maintenance management, transforming engineer-to-order projects, supply chains and systems in turbulent times, methods and tools to achieve the digital and sustainable servitization of manufacturing companies, open knowledge networks for smart manufacturing applications of artificial intelligence in manufacturing intralogistics. Part VI: modelling supply chain and production systems resilience management in supply chains, digital twin concepts in production and services optimization, additive manufacturing advances in production management systems. Chapter Trading Digital Valued Assets Within Cyber Physical Manufacturing Supply Chains. A Scoping Review of Additive Manufacturing and Digital Trade is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](https://link.springer.com). [Lean Six Sigma Master Black Belt Certification Prep Guide : 350 Questions & Answers](#) CloudRoar Consulting Services, 2025-08-15 Prepare for Lean Six Sigma Master Black Belt certification with 350 questions and answers covering advanced process improvement, leadership, statistical analysis, project portfolio management and strategy deployment. Each question includes detailed explanations and real-world examples to strengthen understanding and exam readiness. Designed for senior professionals aiming to lead organizational excellence initiatives. LeanSixSigma MasterBlackBelt ProcessImprovement Leadership StatisticalAnalysis ProjectPortfolioManagement StrategyDeployment ExamPreparation CertificationGuide

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