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# Autonomous Maintenance Lean Six Sigma

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Volume 17

A Decision-Oriented Introduction to the Creation  
of Value

Lean TPM

The Four Components of a Fast-Paced  
Organization

The Lean Practitioner's Field Book

Lean for the Entire Supply Chain

Implementing TPM on the Shop Floor

Lean Six Sigma White Belt. Certification Manual

The Lean Six Sigma Dictionary

Proven Strategies and Techniques to Keep  
Equipment Running at Maximum Efficiency

A Simplified Approach to Process Improvements

Leveraging Lean in Healthcare

Total Productive Maintenance

Developing Competitive Capabilities and  
Managing Profit

Get the Tools You Need to Build a Lean, Mean  
Business Machine

Tools and Methods for Process Acceleration

Projects and Personal Experiences

The Complete Idiot's Guide to Lean Six Sigma

Global Supply Chain and Operations Management

Quality Management for Organizations Using  
Lean Six Sigma Techniques  
Lean Kaizen  
Improving the Extended Value Stream  
Proven, Practical, Profitable and Powerful  
Techniques for Making Lean Really Work  
Why You Need More Than Lean  
Managing to Learn  
A Step-by-Step Guideline for the Lean Practitioner  
The Lean Six Sigma Black Belt Handbook  
Impact Analysis of Total Productive Maintenance  
Implementing Six Sigma and Lean  
Lean Six Sigma For Dummies  
Proceedings of the 11th World Congress on  
Engineering Asset Management  
TPM in Process Industries  
Hoshin Kanri for the Lean Enterprise  
Maximizing Profits through the Integration of  
Lean, Six Sigma, and the Theory of Constraints  
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Increased Competitions and Growing Customers'  
Demands  
Using the A3 Management Process to Solve  
Problems, Gain Agreement, Mentor and Lead  
Explaining the Basics of Continuous Improvement  
Transforming Your Enterprise into a High Quality  
Patient Care Delivery System  
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## **ARCHER ALEXIS**

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Volume 17 CRC Press

Reduce or eliminate costly downtime Short on theory and long on practice, this book provides examples and case studies, designed to provide maintenance engineers and supervisors with a framework for operational strategies and day-to-day management and training techniques that will keep their equipment running at top efficiency.

A Decision-Oriented Introduction to the Creation of Value  
Springer

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.

**Lean TPM** CRC Press  
 Winner of a Shingo Research and Professional Publication Award! At the heart of Lean and Six Sigma is the same, unique business operating system: hoshin kanri. It is a method of strategic planning and a tool for managing complex projects, a quality operating system geared to ensuring that organizations faithfully translate the voice of the customer into new products, and a business operating system that ensures reliable profit growth.

The true power of hoshin kanri, however, is two-fold -- it is a superior organizational learning method as well as a competitive resource development system. Hoshin Kanri for the Lean Enterprise, by Tom Jackson, explains how you can implement, identify and manage the critical relationships among your markets, design characteristics, production systems, and personnel to satisfy your customers and beat your competition. This practical workbook provides— A new understanding of hoshin kanri as a grand experimental design implemented through a system of team agreements. Clear explanations of the steps of hoshin kanri. A measure of overall

business effectiveness used to determine the focus of corporate strategy. A new, improved X-matrix that incorporates a lean "balanced scorecard" for identifying improvement opportunities and converting them readily into bottom line results as a value stream P&L in terms that financial managers and accountants can understand and support. A CD containing forms, meeting agendas, and examples of X-matrices that serve marketing and design engineering as well as manufacturing. This workbook will show you the mechanics of implementing hoshin kanri, so that you can systematically improve your brand equity,

implement Lean manufacturing and Six Sigma, and integrate your suppliers into a Lean and Six Sigma organization.

The Four Components of a Fast-Paced

Organization Tata

McGraw-Hill Education Occupational Safety and Hygiene V contains selected contributions from the International Symposium on Occupational Safety and Hygiene (SHO 2017, 10-11 April 2017, Guimarães, Portugal). The contributions focus on a wide range of topics, including: - occupational safety - risk assessment - safety management - ergonomics - management systems - environmental ergonomics - physical environments - construction safety, and - human factors

Occupational Safety and Hygiene V is mainly based on research carried out at universities and other research institutions, but also includes practical studies developed by OHS Practitioners within companies.

Accordingly, this book will be a helpful text to get acquainted with the state-of-the-art in research in these domains, as well as with some practical tools and approaches that are currently used by OHS professionals worldwide.

*The Lean Practitioner's Field Book* Springer Nature

This book present the state of the art in Total Productive Maintenance (TPM) and its benefits. The authors present a survey applied to 368

manufacturing industries in order to determine their level of execution of TPM. Then a series of causal models are presented. For each model, the authors present a measure of the dependency between the critical success factors and the benefits obtained, allowing industry managers to differentiate between essential and non-essential activities. The content also allows students and academics to obtain a theoretical and empirical basis on the importance of TPM as a lean manufacturing tool in the context of industry 4.0.

Lean for the Entire Supply Chain Springer  
Traditionally, Lean and Six Sigma methods were used in

Automobile and Manufacturing Industries. This book is an attempt to put lights on the Lean and Six Sigma methods and its utilization. Lean Methods are a known effort for reducing the wastes from a process. Whereas Six Sigma is a business philosophy that mainly focuses on Continuous Improvements. Lean and Six Sigma both are set of tools and strategies that help in improving the processes. Though the Lean and Six Sigma methods were developed to support Improvement Projects in Manufacturing industry, the IT and ITES too are successfully enabling Lean Six Sigma to achieve optimum benefits.

Implementing TPM on

the Shop Floor PHI Learning Pvt. Ltd.

This book discusses a system for extending lean manufacturing across the entire supply chain. It is divided into three parts: planning and analysis of the lean extended value stream, implementation of a lean supply chain and sustaining and continuously improving the lean extended value chain.

Lean Six Sigma White Belt. Certification

Institute of Economics, Polish Academy of Sciences  
Total Productive Maintenance Strategies and Implementation Guide  
CRC Press

The Lean Six Sigma Dictionary  
ARTH-Excel  
These proceedings gather selected peer-reviewed papers from

the 11th World Congress on Engineering Asset Management (WCEAM), which was held in Jiuzhaigou, China, on 25–28 July, 2016.

These proceedings cover a wide range of topics in engineering asset management, including: · strategic asset management; · condition monitoring and diagnostics; · integrated intelligent maintenance; · sensors and devices; · information quality and management; · sustainability in asset management; · asset performance and knowledge management; · data mining and AI techniques in asset management; · engineering standards; and · education in engineering asset management. The



breadth and depth of these state-of-the-art, comprehensive proceedings make them an excellent resource for asset management practitioners, researchers and academics, as well as undergraduate and postgraduate students. *Proven Strategies and Techniques to Keep Equipment Running at Maximum Efficiency* Elsevier

The next step in the evolution of the organizational quality field, Lean Six Sigma (LSS) has come of age. However, many challenges to using LSS in lieu of, in conjunction with, or integrated with other quality initiatives remain. An update on the current focus of quality management, Quality Management

for Organizations Using Lean Six Sigma Techniques covers the concepts and principles of Lean Six Sigma and its origins in quality, total quality management (TQM), and statistical process control (SPC), and then explores how it can be integrated into manufacturing, logistics, and healthcare operations. The book presents the background on quality and Lean Six Sigma (LSS) techniques and tools, previous history of LSS in manufacturing, and current applications of LSS in operations such as logistics and healthcare. It provides a decision model for choosing whether to use LSS or other quality initiatives, which projects should be selected and

prioritized, and what to do with non-LSS projects. The author also details an integration model for integrating and developing integrated LSS and other quality initiatives, and common mathematical techniques that you can use for performing LSS statistical calculations. He describes methods to attain the different Six Sigma certifications, and closes with discussion of future directions of Lean Six Sigma and quality. Case studies illustrate the integration of LSS principles into other quality initiatives, highlighting best practices as well as successful and failed integrations. This guide gives you a balanced description of the good, bad, and ugly in

integrating LSS into modern operations, giving you the understanding necessary to immediately apply the concepts to your quality processes. [A Simplified Approach to Process Improvements](#) CRC Press  
 In the new millennium the increasing expectation of customers and products complexity has forced companies to find new solutions and better alternatives to improve the quality of their products. Lean and Six Sigma methodology provides the best solutions to many problems and can be used as an accelerator in industry, business and even health care sectors. Due to its flexible nature, the Lean and

Six Sigma methodology was rapidly adopted by many top and even small companies. This book provides the necessary guidance for selecting, performing and evaluating various procedures of Lean and Six Sigma. In the book you will find personal experiences in the field of Lean and Six Sigma projects in business, industry and health sectors.

**Leveraging Lean in Healthcare** MARGE BOOKS

Six Sigma for Business Excellence: Approach, Tools, and Applications, based on the author's first-hand experience in quality engineering, provides a comprehensive coverage of the Six Sigma methodology. This book provides the complete study material for students

taking the certified Six Sigma Black Belt and Green Belt examinations conducted internationally by the American Society for Quality (ASQ). At the same time, it adequately fills the need of management professionals with numerous application examples and case studies providing an insight into the practical aspect of implementing Six Sigma tools. The book begins with providing an overview of the evolution of Six Sigma, explains the basic concepts and then takes the readers step by step through the process. The focus is more on enabling the implementation of the Six Sigma tools by providing illustrations, tables, application

examples, and templates as well as Minitab and Excel data files for project work and exercises in the soft form on a CD accompanying the book. The templates carried in the book include the Sigma calculator, Six Sigma project review checklist, process mapping, confidence intervals, hypothesis tests, project charter, and measurement systems analysis (Gauge R & R Study). The CD also contains a 30-day trial version of the Minitab and SigmaXL software programs.

*Total Productive Maintenance*  
*Total Productive Maintenance Strategies and Implementation Guide*

This textbook explores the fundamental

principles of Business Process Reengineering (BPR). The express aim of the book is to address the needs of MBA students opting for courses in 'Information Technology Management or 'Operations Management', MCA students who opt for Business Processes as an elective, and students of BE/B.Tech Mechanical Engineering and Production Engineering for courses in Process Engineering/Automation/Management System Design. The book provides them with the concepts, methodologies, models and tools needed to understand and implement BPR. In a nutshell, the book offers a step-by-step presentation of the

practical framework and management techniques needed to achieve engineering solutions for implementation of BPR in an organization. The initial chapters introduce the reader to the need for BPR and its utility in relation to IT and manufacturing. The middle chapters cover the methodology, success factors, barriers, and the technologies that are relevant for BPR implementation. The latter chapters present solutions like lean and virtual manufacturing, enterprise resource planning, and functional information systems. An exclusive chapter is devoted to concepts and tasks of software reengineering. Aided by extensive illustrations, end-of-

chapter review questions, as well as a chapter consisting entirely of case studies, this book will help students develop a rich, multifaceted perspective, to enable them to handle complex management and engineering problems. The book will be useful to students in practically all branches of engineering, not just mechanical/production/ industrial engineering. Developing Competitive Capabilities and Managing Profit CRC Press  
Winner of a 2013 Shingo Research and Professional Publication Award This practical guide for healthcare executives, managers, and frontline workers, provides the means to transform your

enterprise into a High-Quality Patient Care Business Delivery System. Designed for continuous reference, its self-contained chapters are divided into three primary sections: Defines what Lean is and includes some interesting history about Lean not found elsewhere. Describes and explains the application of each Lean tool and concept organized in their typical order of use. Explains how to implement Lean in various healthcare processes—providing examples, case studies, and valuable lessons learned This book will help to take you out of your comfort zone and provide you with new ways to extend value to your customers. It drives home the importance

of the Lean Six Sigma journey. The pursuit of continuous improvement is a journey with no end. Consequently, the opportunities are endless as to what you and your organization can accomplish. Forty percent of the authors' profits from this book will be donated to help the homeless through two Baltimore charities. Praise for the book: ... well-timed and highly informative for those committed to creating deep levels of sustainable change in healthcare. — Peter B. Angood, MD, FACS, FCCM, Senior Advisor - Patient Safety, in National Quality Forum ... the most practical and healthcare applicable book I have ever read on LEAN thinking and concepts. — Gary Shorb, CEO,

Methodist Le Bonheur Healthcare ... well written ... an essential reference in the library of all healthcare leaders interested in performance improvement. — Lee M. Adler, DO, VP, Quality and Safety Innovation & Research, Florida Hospital, Orlando; Associate Professor, University of Central Florida College of Medicine ... a must read for all Leadership involved in healthcare. ... I can see reading this book over and over. — Brigit Zamora, BSN, RN, CPAN, CAPA, Administrative Nurse Manager, Florida Hospital, Orlando  
*Get the Tools You Need to Build a Lean, Mean Business Machine*  
Springer  
An organization's efforts to implement quality systems and

improvement methodologies are more likely to succeed with the understanding and participation of all employees. After completing this certification course, participants will have a foundational knowledge of Lean Six Sigma and understand each person's responsibility in operating the system. Benefits: • Alignment and understanding of the improvement process. • Provides a common language for continuous improvement. • Full and active participation during all kaizen events. • Contribution of ideas to improve work and processes. • Improved employee motivation. • At least one improvement implemented per person, per period.

## Tools and Methods for Process

**Acceleration** BoD – Books on Demand  
 A companywide approach to improving the effectiveness and longevity of equipment and machines, Total Productive Maintenance (TPM) is a critical component of production line success. The need for a step-by-step guidelines on how to achieve TPM has been filled with the publication of *The TPM Playbook: A Step-by-Step Guideline for the Lean Practitioner* and *Personal Projects and Personal Experiences* Penguin  
 A systematic approach to improving production and quality systems, total productive maintenance (TPM) involves all employees through a moderate investment in

maintenance. Therefore, a successful TPM implementation requires support of all employees from C-level on down. Total Productive Maintenance: Strategies and Implementation Guide highlights the [The Complete Idiot's Guide to Lean Six Sigma](#) IGI Global  
 Recognizing the need to implement quality and eliminate waste, companies embrace Lean, Six Sigma, or a combination of the two, typically taking a broad approach that seeks to remediate every process, critical or not. When this happens, efforts become distracted, improvements indefinitely delayed, and results mediocre at best. The Ultimate Improvement Cycle



(UIC) integrates Lean, Six Sigma, and the Theory of Constraints into a combined strategy that will help you immediately focus your efforts on those areas that will make the greatest difference. The book presents basic laws of factory physics that show why the UIC delivers significant bottom-line improvement while other initiatives so often fail. It explains to you why focusing your efforts on apparent problems rather than systemic concerns is wasted effort. Focus on key areas and take improvement to the next level. *The Ultimate Improvement Cycle: Maximizing Profits through the Integration of Lean, Six Sigma, and the Theory of Constraints* show you how to draw the best

from Lean and Six Sigma by employing principles drawn from the Theory of Constraints. This approach will ensure that your effort is focused in the right place, at the right time, using the right tools, and the right amount of resources. This multi-pronged approach addresses cost accounting, variation, waste, and performance measurements. But most importantly, it focuses your organization on the right areas to optimize. Applying years of hands-on work in many environments, Bob Sproull has developed a unique proven method that capitalizes on a time-release formula for evoking the key tools that improvement requires.

He shows you how to take advantage of the cyclical nature of improvement to implement change that is perpetually effective, and his approach does not require more resources than you have on hand.

Although originally developed in manufacturing, the UIC works equally well in any environment whether it be manufacturing or service-oriented, including Maintenance, Repair and Overhaul (MRO) and Critical Chain Project Management (CCPM). Global Supply Chain and Operations Management

Routledge

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.

*Quality Management for Organizations Using Lean Six Sigma Techniques* Pearson Education India Manufacturing companies work endlessly to make process improvements, yet they are often hard to implement and even harder to sustain. The reason: companies often stumble when communicating why the methodologies are being used and how to sustain the improvements. Communication for Continuous Improvement Projects demonstrates how to communicate change, create confidence in the new processes, and empower employees. It shows how to be an effective change agent by utilizing tools that make sense while

being competitive in the business market. The book explores how the proper tools, communication, and management make the Lean Six Sigma methodologies work. It includes a Continuous Improvement Toolkit that is an easy reference for what tool to use and when and how to effectively teach the tools to employees who are not necessarily engineers. Communicating these tools is the most difficult part of using the tools. The author details the implementation of the actual tools that create confidence and explains Lean Six Sigma in a way that will make employees want to jump on board. Result-driven decisions can be made from the methodologies

described in this book, making processes quantifiably better with sustainable results. Extensive and informative, the book takes the guesswork out of the art of continuous improvement through communication.

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