

Mistake Proofing For Operators: The ZQC System (The Shopfloor Series)

Here, in Dr. Shingo's final book, he gives us a comprehensive system for the improvement of production functions. This book's broad scope encompasses such diverse topics as Value Engineering, CAD/CAM techniques, and information management. If you've never read Shingo, it will give you an overview of his brilliant concepts. If you are familiar with his genius, you'll find it a much-needed network of his ideas. It includes: Historical revolutions in production. A production management revolution in the United States. A scientific thinking mechanism for improvement. Creating an improvement plan. Basic flaws in conventional production management improvement. Process functions and operational functions. The effect of the division of labor on the development of work. According to the great mathematician Paul Erdős, God maintains perfect mathematical proofs in The Book. This book presents the authors candidates for such "perfect proofs," those which contain brilliant ideas, clever connections, and wonderful observations, bringing new insight and surprising perspectives to problems from number theory, geometry, analysis, combinatorics, and graph theory. As a result, this book will be fun reading for anyone with an interest in mathematics.

Normal Accidents analyzes the social side of technological risk. Charles Perrow argues that the conventional engineering approach to ensuring safety--building in more warnings and safeguards--fails because systems complexity makes failures inevitable. He asserts that typical precautions, by adding to complexity, may help create new categories of accidents. (At Chernobyl, tests of a new safety system helped produce the meltdown and subsequent fire.) By recognizing two dimensions of risk--complex versus linear interactions, and tight versus loose coupling--this book provides a powerful framework for analyzing risks and the organizations that insist we run them. The first edition fulfilled one reviewer's prediction that it "may mark the beginning of accident research." In the new afterword to this edition Perrow reviews the extensive work on the major accidents of the last fifteen years, including Bhopal, Chernobyl, and the Challenger disaster. The new postscript probes what the author considers to be the "quintessential 'Normal Accident'" of our time: the Y2K computer problem.

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 Shopfloorincludes 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.l1 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 Shopfloorincludes innovative instructional features that are the signature of the Shopfloor Series.

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Lean Lexicon

Lean Assembly

Autonomous Maintenance for Operators

Mistake-Proofing for Operators

Standard Work for the Shopfloor

Six Sigma

A Six Sigma pioneer from Jack Welch's original team at GE shows you how to bring big improvements to your small business Six Sigma for Small Business is the first book to apply six sigma to the unique challenges of a small business. It shows how to use the methodology in all aspects of business to identify and fix problems, with chapters on: accounting, finance, sales and marketing, purchasing a business, human resources, and developing new products. It walks you through a step-by-step implementation of six sigma, describing how to identify needs, develop metrics, and set objectives. It also provides real-life examples of small-business six sigma success stories.

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.

TPM leads to soaring productivity when your operators are positively and energetically involved in the maintenance of their own equipment. Autonomous Maintenance for Operatorsteaches specific autonomous maintenance activities. For operators, supervisors, team leaders, and TPM coordinators, this book provides useful guidance and case study examples on autonomous maintenance. Activity boards, one-point lessons, photos, cartoons, and other actual examples of implementation demonstrate the huge benefits of developing informed, motivated operators who take ownership of and improve their equipment. Shopfloor operators will learn: 4 skills they can develop to keep equipment running smoothly, how to inspect for problems as they clean equipment, ideas for containing debris that shortens equipment life, tips for effective lubrication management, how to use activity boards, meetings, and one-point lessons to promote TPM goals. This book assumes some familiarity with the steps of autonomous maintenance and focuses on specific autonomous maintenance activities.

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

Mistake-proofing for Operators

Projects and Personal Experiences

Strategic Error-Proofing

Overall Equipment Effectiveness

Made-to-Order Lean

Improving Process Functions

"It is a book for manufacturing companies that are fighting desperately for survival and that will go to any length to improve their factories and overcome the obstacles to success. One could even call this book a 'bible' for corporate survival."--Hiroyuki Hirano Known as the JIT bible in Japan, JIT Implementation Manual – The Complete Guide to Just-in-Time Manufacturing presents the genius of Hiroyuki Hirano, a top international consultant with vast experience throughout Asia and the West. Encyclopedic in scope, this six-volume practical reference provides unparalleled information on every aspect of JIT– the waste-eliminating, market-oriented production system. This historic, yet timeless classic is just as crucial in today's fast-changing global marketplace as when it was first published in Japan 20 years ago. Covering all the techniques essential to setting up a flow production system in manufacturing, Volume 3: Flow Manufacturing – Multi-Process Operations and Kanban includes a basic introduction to the relationship between inventory and flow production and their roles in manufacturing. It also provides discussion of multi-process operations and precautions and procedures for developing them. Outlining the key topic of labor cost reduction and steps to achieving it, this definitive volume also covers the essentials of Kanban and visual control systems in a flow manufacturing environment.

This is the Leader's Guide that accompanies the Mistake-Proofing for Operators Learning Package.

The fast and easy way to understand and implement Six Sigma The world's largest and most profitable companies—including the likes of GE, Bank of America, Honeywell, DuPont, Samsung, Starwood Hotels, Bechtel, and Motorola—have used Six Sigma to achieve breathtaking improvements in business performance, in everything from products to processes to complex systems and even in work environments. Over the past decade, over \$100 billion in bottom-line performance has been achieved through corporate Six Sigma programs. Yet, despite its astounding effectiveness, few outside of the community of Six Sigma practitioners know what Six Sigma is all about. With this book, Six Sigma is revealed to everyone. You might be in a company that's already implemented Six Sigma, or your organization may be considering it. You may be a student who wants to learn how it works, or you might be a seasoned business professional who needs to get up to speed. In any case, this updated edition of Six Sigma For Dummies is the most straightforward, non-intimidating guide on the market. New and updated material, including real-world examples What Six Sigma is all about and how it works The benefits of Six Sigma in organizations and businesses The powerful "DMAIC" problem-solving roadmap Yellow, Green and Black-how the Six Sigma "belt" system works How to select and utilize the right tools and technologies Speaking the language of Six Sigma; knowing the roles and responsibilities; and mastering the statistics skills and analytical methods Six Sigma For Dummies will become everyone's No. 1 resource for discovering and mastering the world's most famous and powerful improvement tool. Stephen Covey is spot-on when he says, "Six Sigma For Dummies is a book to be read by everyone."

Shigeo Shingo shows you how this proven system for reducing errors to zero, turns out the highest quality products in the shortest period of time. Provides 112 specific examples of poka-yoke development devices on the shop floor, most of them costing less than \$100 to implement.

The Quality Toolbox, Second Edition

The Shingo Production Management System

Collected Practices and Cases

Achieving Success Every Time with Smarter FMEAs

Visual Tools

A Leader's Guide

The powerful knowledge contained in this book can make your workplace more productive, your job simpler, and everything more satisfying. It's about how to do equipment or product changeovers in record time--often in less than 10 minutes. The method you'll learn here is called SMED, short for "Single-Minute Exchange of Die" (the 'single' here means a single-digit number of minutes). Developed from a longer book, A Revolution in Manufacturing: The SMED System(cat no. PP9903), written for managers, this book is written for frontline production and assembly associates. It presents an overview of the reasons why SMED is important for companies and employees, sets out the three basic stages of SMED, and then devotes a separate chapter to each of these stages. The first chapter of the book is like an "owner's manual" that tells you how to get the most out of your reading time by using the margin assists, summaries, and other features of the book to help pull out exactly what you need. One of the most effective ways to use this book is to read and discuss it with other employees. The authors planned the book so that it can be used this way, organizing the book into chunks of information that can be covered in a series of short sessions. Each chapter includes reflection questions to stimulate group discussion. A Learning Package is also available (catalog no.PP7126), which includes a leader's guide, overhead transparencies to summarize major points, and color slides showing examples of SMED applications in different kinds of companies. s of the book to help pull out exactly what you need. One of the most effective ways to use this book is to read and discuss it with other employees. The authors planned the book so that it can be used this way, organizing the book into chunks of information that can be covered in a series of short sessions. Each chapter includes reflection questions to stimulate group discussion. A Learning Package is also available (catalog no.PP7126), which includes a leader's guide, overhead transparencies to summarize major points, and color slides showing examples of SMED applications in different kinds of companies.

This book illustrates how the strategic placement of 'error-proofing' devices, which is referred in this book as Success Every Time (SET), drives up industries' profits and throughput. It highlights the deficiencies of Failure Mode Effects Analysis (FMEA) and compares the strategy to the SET.

With 14 new definitions touching on management, healthcare, startups, manufacturing, and service, the 5th edition of the Lean Lexicon, is the most comprehensive edition yet of the handy and practical glossary for lean thinkers. The latest Lexicon, updated in 2014, contains 60+ graphics and 207 terms from A3 Report to Yokoten. The Lexicon covers such key lean terms as andon, jidoka, kaizen, lean consumption, lean logistics, pull, plan-for- every-part, standardized work, takt time, value-stream mapping, and many more. The new terms are: • Basic Stability • Coaching • Gemba Walk • Huddle • Kamishiba Board • Kata • Leader Standard Work • Lean Management • Lean Management Accounting • Lean Startup • Problem Solving • Service Level Agreement • Training Within Industry (TWI) • Value-stream Improvement Unlike most other business glossaries in print or online, the Lexicon, introduced in January 2003, is focused exclusively on lean thinking and practice. Like the past four, the fifth edition of the Lean Lexicon incorporates terms and improvement ideas from our customers. We continue to welcome suggestions from the growing lean community in its traditional industries and beyond.

This is much special material written about different elements of managing risks of hazardous industries, such as hazard identification, risk analysis, and risk management. Managing Risk and Reliability of Process Plants provides a systematic and integrated coverage of all these elements in sufficient detail for the reader to be able to pursue more detailed study of particular elements or topics from a good appreciation of the whole field. The reader would use this book to keep up to date with new developments and, if they are new to the job, to learn more about the subject. The text includes a chapter of case studies and worked examples - including examples of risk assessments, which is consistent with the approach taken throughout the book of applying real-life scenarios and approaches. " Provides a source for reasonable understanding across the whole field of risk management and risk assessment." Focuses on the how, what, and why of risk management using a consistent and well organized writing style interspersed with case studies, examples, exercises, as well as end matter. " Fills a need in the area of risk assessment and risk management in the process and chemical engineering industry as an essential multi-audience reference/resource tool, useful to managers and students.

Mistake Proofing for Lean Healthcare

The Smed System

Quick Changeover for Operators

A Graphical Glossary for Lean Thinkers

Improving the Extended Value Stream

EI Sistema de Producción Toyota

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 Twenty-five years ago, how many people were thinking about the internet on a daily basis? Now you can find everything, including technical and instruction manuals, online. But some things never change. Users still need instructions and warnings to guide them in the safe and proper use of products. Good design, clear instructions and warnings, place "... a step-by-step process that can be used to help create a very efficient error-free organization that will be able to compete with the best of companies"---Page 7.

The Quality Toolbox is a comprehensive reference to a variety of methods and techniques: those most commonly used for quality improvement, many less commonly used, and some created by the author and not available elsewhere. The reader will find the widely used seven basic quality control tools (for example, fishbone diagram, and Pareto chart) as well as the newer management and planning tools. Tools are included for generating and organizing ideas, evaluating processes, determining root causes, planning, and basic data-handling and statistics. The book is written and organized to be as simple as possible to use so that anyone can find and learn new tools about a teacher. Above all, this is an instruction book. The reader can learn new tools or, for familiar tools, discover new variations or applications. It also is a reference book, organized so that a half-remembered tool can be found and reviewed easily, and the right tool to solve a particular problem or achieve a specific goal can be quickly identified. With this book close at hand, a quality improvement team becomes capable of more efficient and effective work with less assistance from a trained quality consultant. Quality and training professionals also will find it a handy reference and quick way to expand their repertoire of tools, techniques, applications, and tricks. For this second edition, Tague added 34 tools and 18 variations. The "Quality Improvement Stories" chapter has been expanded to include detailed case studies from three Baldrige Award winners. An entirely new chapter, "Mega-Tools: Quality Management Systems," puts the tools into two contexts: the historical evolution of quality improvement and the quality management systems within which the tools are used. This edition liberally uses icons with each tool description to reinforce for the reader what kind of tool it is and where it is used within the improvement process.

Poka-Yoke

Six Sigma for Small Business

Mistake-Proofing Simplified : An Indian Perspective

Book of Proof

Kanban for the Shopfloor

Excelling in a High-Mix, Low-Volume Environment

A POWERFUL GUIDE to help you establish a culture of defect prevention by idea creation and team engagement. It shows how the habit of Mistake Proofing can be inculcated in to the DNA of the organisation. Drawing upon several years of research and hands on experience at various companies. Filled with more than 100 explicit EXAMPLES collected from diverse companies and day to day life, organised into a coherent framework of practical concepts that can be applied by managers both at Manufacturing and Service environment. 'MISTAKE PROOFING SIMPLIFIED' provides a master blueprint for a structured deployment and tips for sustenance of the program in a very simple yet effective manner. The book will help you understand the concept and develop your own strategy for step by step mechanism for a system towards ZERO DEFECT PROCESS.

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 equipment and your workplace 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.)

Toyota Production System methods have rendered remarkable results in high-volume manufacturing plants, but they have not been fully understood and correctly applied in high-mix, low-volume environments. While lean principles do apply, the implementation methods and tools must be adapted and alternate methods embraced in a low-volume environment. This volume is specifically geared for manufacturers that have hundreds to thousands of active part numbers with few or no ongoing forecasted volumes, and for job shops that build only to order. The primary focus is eliminating non-value-added activities and instituting improvements on the most repetitive jobs, a strategy that gives you more time to produce your low-volume work or one-offs. About the author: Greg Lane is a faculty member of the Lean Enterprise Institute and an advisor to the Instituto de Lean Management in Spain. During his time with Toyota, he was one of a handful of candidates selected for a one-year training program conducted by the company's masters. He became certified as a Toyota Production System (TPS) Key Person and continued his work with Toyota, training others in TPS. He has been highly active in working on implementing lean around the world, supporting large and small companies alike. In 1998, he began to focus his lean endeavors on meeting the specific needs of high-mix, low-volume enterprises. During his time as an independent consultant, Greg purchased and operated his own manufacturing company, which specialized in fast turnaround on high-mix, low-volume parts. Greg used TPS to grow the business and nearly double its sales. Greg and his associates have experience not only at adapting the methods contained in this book, but also in applying other tools that are too numerous to detail here. They can be reached for further support with your lean transformation via email: glane@lowvolumelean.com

This book is an introduction to the language and standard proof methods of mathematics. It is a bridge from the computational courses (such as calculus or differential equations) that students typically encounter in their first year of college to a more abstract outlook. It lays a foundation for more theoretical courses such as topology, analysis and abstract algebra. Although it may be more meaningful to the student who has had some calculus, there is really no prerequisite other than a measure of mathematical maturity.

Source Inspection and the Poka-Yoke System

Zero Quality Control

Proofs from THE BOOK

Mistake-Proofing for Operators Learning Package

The Human Factors Analysis and Classification System

Lean Six Sigma For Dummies

In a "pull" production system, the final process pulls needed parts from the previous process, which pulls from the process before it, and so on, as determined by customer demand. This allows you to operate without preset schedules and avoid unnecessary costs, wastes, and delays on the manufacturing floor.Pull Production for the Shopfloor introduce

Visual tools are an essential part of any lean transformation, and understanding correct application of appropriate tools is crucial. This book clearly illustrates how successful organizations, such as Boeing and Maytag, have implemented visual tools in their operations. It shows both their respective achievements and the challenges they faced. Visual Tools: Collected Practices and Cases provides a variety of case studies taken from articles previously published in Lean Manufacturer Advisor - the monthly newsletter by Productivity Press.

With examples drawn from aerospace, electronics, household appliance, personal products, and automotive industries, Lean Assembly covers the engineering of assembly operations through: Characterizing the demand in terms of volume by product and product family, component consumption, seasonal variability and life cycle. Matching the physical structure of the shop floor to the demand with the goal of approaching takt-driven production as closely as possible. Working out the details of assembly tasks station by station, including station sizing, tooling, fixturing, operator instructions, part presentation, conveyance between stations, and the geometry of assembly lines as a whole. Incorporating mistake-proofing, successive inspection, and test operations for quality assurance. Lean Assembly differs from most other books on lean manufacturing in that it focuses on technical content as a driver for implementation methods. The emphasis is on exactly what should be done. This book should be the "dog-eared" and "pencil-in" resource on every assembly engineer's desk.

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.

Work that Makes Sense Operator-led Visuality

A Human Error Approach to Aviation Accident Analysis

A Study of the Toyota Production System

No Eraser Needed - Mistake Proofing Your Business

Improving Product Quality by Preventing Defects

Managing Risk and Reliability of Process Plants

While it has helped improve quality by teaching them how to avoid what can go wrong, it doesn't show how to make things go right. That is what the Success Every Time (SET) does. Developed by renowned manufacturing visionary John Casey, SET defines a logic stream for engineers to strategically incorporate no-cost or low-cost error-proofing devices to help production operators. When SET is executed completely, failure is not an option. The operators interface with their parts and tools in such a way that either the product is made correctly, or the product/process is stopped. Operators can make only good parts--nothing else. For this reason, proper implementation of SET drives higher first time yield, increases customer satisfaction, improves warranty claims, improves profits, and helps you compete. John J. Casey has published multiple articles on quality initiatives and is well recognized in the Automotive Industry. Mr. Casey is seen as an automotive industry visionary and is cited as the father of GM's Global Quality Tracking System that was the cornerstone of GM's 85% improvement on inbound quality over a 4-year period.

The principles of mistake proofing, long used to eliminate errors and defects across a range of industries, are now being applied in healthcare organizations around the world to help ensure patient safety, improve services, and eliminate waste. Mistake Proofing for Lean Healthcare is based on the definitive mistake-proofing philosophy and system developed by Shigeo Shingo. This reader-friendly book introduces the main concepts and benefits of mistake proofing in healthcare and highlights common reasons that errors and defects occur. It also explains how to catch errors before they become defects, using the concept of "source inspection," so you can ensure quality before a process is performed instead of afterward. When systematically used, the mistake-proofing approach explained in this book will help you: Create safer, more reliable, and more effective healthcare services for both patients and staff Establish a culture in which mistakes and the conditions that cause them are readily surfaced so they can be corrected Lay the foundation for processes that flow smoothly, without disruption Eliminate error, waste, and the need for extra resources and supplies Presenting real-world healthcare examples, the book shows different types of mistake-proofing devices and methods (poka-yoke) that provide feedback quickly and automatically to prevent errors and defects. The book is part of the Lean Healthcare Series and is designed for individual or group learning. Each chapter includes reflection questions to facilitate understanding and stimulate discussion and action.

With the growing business of industry there is a large demand for greater speed and quality, for projects of all natures in both small and large businesses. Lean Six Sigma is the result of the combination of the two best-known improvement methods: Six Sigma (making work better, of higher quality) and Lean (making work faster, more efficient). Lean Six Sigma For Dummies outlines they key concepts in plain English, and shows you how to use the right tools, in the right place, and in the right way, not just in improvement and design projects, but also in your day-to-day activities. It shows you how to ensure the key principles and concepts of Lean Six Sigma become a natural part of how you do things so you can get the best out of your business and accomplish your goals better, faster and cheaper. About the author John Morgan has been a Director of Catalyst Consulting, Europe's leading provider of lean Six Sigma solutions for 10 years. Martin Breng-Jones is also a Director at Catalyst Consulting. He is an expert in Quality and Change Management and has worked in the field for 16 years.

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.

JIT Implementation Manual – The Complete Guide to Just-In-Time Manufacturing

Mas alla de la produccion a gran escala

A Zero-Waste Environment with Process Automation

The ZQC System - a Leader's Guide

The ZQC System

Living with High Risk Technologies - Updated Edition

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.

The philosophy of kaizen, which simply means continuous improvement, needs to adopted by any organization seeking to implement lean improvements that go beyond cost cutting. Kaizen events are opportunities to make focused changes in the workplace. Kaizen for the Shopfloor takes readers through the critical steps for conducting a very effective kaizen event: one that is well planned, well implemented, and well documented. As the newest addition to the Shingo Prize Winning Shopfloor Series, Kaizen for the Shopfloor distills the complexities of jump starting lean processes into an easily accessible format for those frontline employees who make lean possible. 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.

Si usted quiere entender como se origino el sistema de producci?n Toyota y por que tiene exito, debe leer este libro. Aqui encontrara una introducci?n avanzada del justo a tiempo. El mundo le debe mucho a Taiichi Ohno. Nos ha demostrado como fbricar con mayor eficacia, como reducir costos, como producir una mayor calidad, y a examinar atentamente como nosotros, en nuestra calidad de seres humanos, trabajamos en una fbrica. El relato que Ohno cuenta en este libro es brillante. Deberia ser leído por todos los gerentes. No es solo un relato acerca de la fabricaci?n; sino tambien sobre como dirigir exitosamente una empresa.

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.

Lean for the Entire Supply Chain

Pull Production for the Shopfloor

Six Sigma For Dummies

Creating and Sustaining Visuality on the Value-add Level

Volume 3 -- Flow Manufacturing -- Multi-Process Operations and Kanban

The Nuts and Bolts of Making Assembly Operations Flow

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 Operatorsdefines 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

Human error is implicated in nearly all aviation accidents, yet most investigation and prevention programs are not designed around any theoretical framework of human error. Appropriate for all levels of expertise, the book provides the knowledge and tools required to conduct a human error analysis of accidents, regardless of operational setting (i.e. military, commercial, or general aviation). The book contains a complete description of the Human Factors Analysis and Classification System (HFACS), which incorporates James Reason's model of latent and active failures as a foundation. Widely disseminated among military and civilian organizations, HFACS encompasses all aspects of human error, including the conditions of operators and elements of supervisory and organizational failure. It attracts a very broad readership. Specifically, the book serves as the main textbook for a course in aviation accident investigation taught by one of the authors at the University of Illinois. This book will also be used in courses designed for military safety officers and flight surgeons in the U.S. Navy, Army and the Canadian Defense Force, who currently utilize the HFACS system during aviation accident investigations. Additionally, the book has been incorporated into the popular workshop on accident analysis and prevention provided by the authors at several professional conferences world-wide. The book is also targeted for students attending Embry-Riddle Aeronautical University which has satellite campuses throughout the world and offers a course in human factors accident investigation for many of its majors. In addition, the book will be incorporated into courses offered by Transportation Safety International and the Southern California Safety Institute. Finally, this book serves as an excellent reference guide for many safety professionals and investigators already in the field.

Normal Accidents

From an Industrial Engineering Viewpoint

Oee for Operators

Writing and Designing Manuals and Warnings 4e

Kaizen for the Shop Floor