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# POKA-YOKE

IMPROVING PRODUCT  
QUALITY BY  
PREVENTING DEFECTS



EDITED BY NKS/FACTORY MAGAZINE

OVERVIEW BY HIROYUKI HIRANO

# Pokayoke Improving Product Quality By Preventing Defects

**JR Anderson**



## **Pokayoke Improving Product Quality By Preventing Defects:**

**Poka-yoke** ,1987      *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

**Poka-yoke** ,1988      **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

*Leveraging Lean in Outpatient Clinics* Charles Protzman,2017-07-27 This book is part of a series of titles that are a spin off of the Shingo Prize winning book *Leveraging Lean in Healthcare Transforming Your Enterprise into a High Quality Patient Care Delivery System* Each book in the series focuses on a specific aspect of healthcare including emergency departments medical laboratories outpatient clinics ancil      **Continuous Improvement in Organizations** José Dinis

Carvalho,2023-02-17 This book presents what you need to know to really implement continuous improvement in companies or other organizations In addition to all the support needed for this to make sense the importance of the right direction to guide it is unveiled The reader will find in this book the origins of continuous improvement and all the framing that justifies and demystifies it in the aspects that characterize the socio technical nature of organizations This work also explores the need for effective coexistence between technical aspects and behavioral and cultural aspects so that continuous improvement and excellence are achieved in organizations Topics discussed in the book include The origins of continuous improvement The main operational excellence models The invisible side of organizations The visible side of organizations Decoding

continuous improvement The maturity levels of continuous improvement Some models and tips for the implementation of continuous improvement Main tools associated to excellence in organizations This book was written with the aim of helping engineering students in courses related to operations management to develop skills in this area as well as businessmen with curiosity about this subject production directors people responsible for continuous improvement and all professionals working in companies or other organizations with responsibility for their performance and their future **Lean Manufacturing** , Introduction to Manufacturing Michel Baudin,Torbjørn Netland,2022-12-27 This Introduction to Manufacturing focuses students on the issues that matter to practicing industrial engineers and managers It offers a systems perspective on designing managing and improving manufacturing operations On each topic it covers the key issues with pointers on where to dig deeper Unlike the many textbooks on operations management supply chain management and process technology this book weaves together these threads as they interact in manufacturing It has five parts Getting to Know Manufacturing Fundamental concepts of manufacturing as an economic activity from manufacturing strategy to forecasting market demand Engineering the Factory Physical design of factories and processes the necessary infrastructure and technology for manufacturing Making Information Flow The central nervous system that triggers and responds to events occurring in production Making Materials Flow The logistics of manufacturing from materials handling inside the factory via warehousing to supply chain management Enhancing Performance Managing manufacturing performance and methods to maintain and improve it both in times of normal operations and emergencies Supported with rich illustrations and teaching aids Introduction to Manufacturing is essential reading for industrial engineering and management students of all ages and backgrounds engaged in the vital task of making the things we all use *Creating Value* John Rizzo,2025-11-11 Guide to create unlimited value in any organization supported by rich granular company stories Drawing from real stories of how companies relentlessly improved quality delivery service and cost structure Creating Value Empowering People for Sustainable Success that Benefits Employees Customers and Owners offers simple powerful ways to think and act to unlock the nascent value of any enterprise This book shares a dynamic business system that when practiced authentically taps into a more focused and productive organization to deliver superior value to customers in a way that improves consistently over time Author John Rizzo draws from 30 years of leading successful business transformations in a wide range of industries His approach which creates sustainable success by empowering people to improve processes continuously features the following principles Apply a Holistic Business System Develop a complete framework that integrates strategy deployment value stream analysis workshops and management systems Prioritize People Development Employ techniques that tap the wisdom of those who do the work the true source of sustainable improvement Learning as the Foundation Discover how hands on improvement creates deeper understanding and represents the most fundamental type of continuous improvement Produce Quality at the Source Build excellence into processes rather than inspecting for it afterward Leverage the Compounding

Power of Improvement Realize the power of small improvements accumulating into breakthrough performance Creating Value reveals how pursuing excellence leads to outstanding results that endure over years It is an essential resource for business leaders to dramatically boost employee participation and agency while steadily increasing profits and boosting enterprise value leading to widely shared creation of value **Standard Work for the Shopfloor** Productivity Press Development Team,2024-11-01 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 Series books offer a simple cost effective approach for building basic knowledge about key manufacturing improvement topics Like all our Shopfloor Series books 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 **Quality Assurance** D. H. Stamatis,2015-09-04 Although regularly introducing new products or services is the lifeblood of most industries bringing them to market can be fraught with peril Timing cost and quality all play important roles in a successful product launch and avoiding expensive often in more than just dollars recalls and redesigns Quality Assurance Applying Methodologies for Leveraging Lean in Ancillary Hospital Services Charles Protzman,Joyce Kerpchar,George Mayzell,2017-07-27 This book is part of a series of titles that are a spin off of the Shingo Prize winning book Leveraging Lean in Healthcare Transforming Your Enterprise into a High Quality Patient Care Delivery System Each book in the series focuses on a specific aspect of healthcare that has demonstrated significant process and quality improvements after a Lean **Leveraging Lean in Surgical Services** Joyce Kerpchar,Charles Protzman,George Mayzell,2017-07-27 This book is part of a series of titles that are a spin off of the Shingo Prize winning book Leveraging Lean in Healthcare Transforming Your Enterprise into a High Quality Patient Care Delivery System Each book in the series focuses on a specific aspect of healthcare that has demonstrated significant process and quality improvements after a Lean **Leveraging Lean in Medical Laboratories** Charles Protzman,Joyce Kerpchar,George Mayzell,2017-08-02 This book is part of a series of titles that are a spin off of the Shingo Prize winning book Leveraging Lean in Healthcare Transforming Your Enterprise into a High Quality Patient Care Delivery System Each book in the series focuses on a specific aspect of healthcare that has demonstrated significant process and quality improvements after a Lean TPM in Process Industries Tokutaro Suzuki,2017-10-06 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

*Mistake-Proofing Simplified : An Indian Perspective* Aryan Viswakarma,2013-10-10 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

**Kanban Just-in Time at Toyota** Japan Management Association,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

**TQM Engineering Handbook** D.H. Stamatis,1997-06-26 Offering a model an implementing strategy as well as traditional and nontraditional methods for the successful enhancement and maintenance of quality this work establishes a rationale for the continuation of Total Quality Management TQM in all organizations It considers leading quality related topics such as unusual charts supplier organization customer relationships customer needs and expectations instructional design adult learning advanced quality planning and reliability

**Continuous Improvement** Larry Anderson,Dan Fleming,Bruce Hamilton,Pat Wardwell,2021-11-17 In this third book of the Shingo Model

series Continuous Improvement focuses on five of the Shingo Guiding Principles seek perfection embrace scientific thinking focus on process assure quality at the source and improve flow and pull Each chapter in Continuous Improvement is designed to enhance your comprehension of one or more aspects of the Continuous Improvement dimension of the Shingo Model and to increase your understanding of how the dimension interrelates with and complements the other principles in the Shingo Model Ultimately this explanation grounds the technical science of continuous improvement with a powerful social science that focuses on people development It is this combination that creates the opportunity for improvement to be truly continuous Because tacit learning is critical to deepening your continuous improvement knowledge Reader Challenges are included throughout the text to encourage you to apply what you have read within the context of your own organization This hands on practice is necessary to understand the interrelatedness of principles systems and tools that are inherent in the Shingo Model The Shingo Institute recognizes that the transformation from traditional philosophy and practices to organizational excellence does not occur without the courage creativity and persistence of everyone in the organization from executives to managers to team members on the frontline

**Intelligent Systems in Production Engineering and Maintenance III** Anna Burduk, Andre D. L. Batako, José Machado, Ryszard Wyczółkowski, Ewa Dostatni, Izabela

Rojek, 2023-09-26 This book reports on intelligent methods and solutions in engineering production and maintenance It describes advanced tools for optimizing production processes increasing their automation safety and sustainability Contributions cover different stages of the production process such as product design supply chain and equipment maintenance and safety This is one of the two volumes based on the 4th International Conference on Intelligent Systems in Production Engineering and Maintenance ISPEM 2023 held on September 13 15 2023 in Wroclaw Poland

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