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# POKA-YOKE

IMPROVING PRODUCT  
QUALITY BY  
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EDITED BY NKS/FACTORY MAGAZINE

OVERVIEW BY HIROYUKI HIRANO

# Pokayoke Improving Product Quality By Preventing Defects

**JapanManagementAssociation**



## **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      **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      **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 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      *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      **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      Lean Manufacturing ,      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 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 *The Quality Toolbox* Nancy Tague,2004-07-14 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 ideas analyzing 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 without 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

**Statistical Engineering** Stefan H. Steiner, R. Jock MacKay, 2005-01-02 Reducing the variation in process outputs is a key part of process improvement For mass produced components and assemblies reducing variation can simultaneously reduce overall cost improve function and increase customer satisfaction with the product The authors have structured this book around an algorithm for reducing process variation that they call Statistical Engineering The algorithm is designed to solve chronic problems on existing high to medium volume manufacturing and assembly processes The fundamental basis for the algorithm is the belief that we will discover cost effective changes to the process that will reduce variation if we increase our knowledge of how and why a process behaves as it does A key way to increase process knowledge is to learn empirically that is to learn by observation and experimentation The authors discuss in detail a framework for planning and analyzing empirical investigations known by its acronym QPDAC Question Plan Data Analysis Conclusion They classify all effective ways to reduce variation into seven approaches A unique aspect of the algorithm forces early consideration of the feasibility of each of the approaches Also includes case studies chapter exercises chapter supplements and six appendices PRAISE FOR Statistical Engineering I found this book uniquely refreshing Don't let the title fool you The methods described in this book are statistically sound but require very little statistics If you have ever wanted to solve a problem with statistical certainty without being a statistician then this book is for you A reader in Dayton OH This is the most comprehensive treatment of variation reduction methods and insights I've ever seen Gary M Hazard Tellabs Throughout the text emphasis has been placed on teamwork fixing the obvious before jumping to advanced studies and cost

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A Wong Canada     Tool and Manufacturing Engineers Handbook: Design for Manufacturability Thomas J. Drozda, Charles Wick, Philip Mitchell, Ramon Bakerjian, John T. Benedict, Raymond F. Veilleux, 1983 Addresses important topics of DFM including how it relates to concurrent engineering management issues getting started in DFM how to justify using DFM applying quality tools and how DFM is affecting computer technology and vice versa Covers topics starting with the creative thinking process to combining DFM with geometric dimensioning and tolerancing Also includes product design information that designers should know when committing pen to paper or mouse to mat     *Total Quality Management* Poorinma M. Charantimath, 2011

Advances in Mechanical Processing and Design Prita Pant, Sushil K. Mishra, Purna Chandra Mishra, 2020-11-25 This book presents selected proceedings of the International Conference on Advances in Mechanical Processing and Design ICAMPD 2019 The contents highlight latest research in next generation mechanical systems design thermal and fluid systems design materials and smart manufacturing processes and industrial engineering Some of the topics covered include smart materials materials processing and applications smart machinery and machine design system dynamics and simulation biomimetics energy systems micro and nano scale transport automotive engineering advance material characterization and testing and green and sustainable manufacturing Given the scope of the contents this book can be of interest to students researchers as well as industry professionals

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