

Poka Yoke Improving Product Quality By Preventing Defects

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[Poka Yoke Improving Product Quality](#)

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.

[Poka-Yoke: Improving Product Quality by Preventing Defects ...](#)

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.

[Poka-Yoke: Improving Product Quality by Preventing Defects ...](#)

Buy Poka-Yoke: Improving Product Quality by Preventing Defects by Factory Magazine (1989-02-01) by Nikkan Kogyo Shimbun (ISBN:) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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[Poka-Yoke : Improving Product Quality by Preventing Defects](#)

Poka-Yoke is a process improvement designed to prevent a specific defect from occurring. It is a process improvement system that prevents personal injury, promotes job safety and prevents faulty products and machine damage. Poka-yokes are mechanisms used to mistake proof an entire process.

[Poka-Yoke for Quality](#)

Traditional engineering design Poka-Yoke has proven to be very effective to build quality into production processes. However, its application in non-production processes is very limited due to its...

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Poka-Yoke: Improving Product Quality by Preventing Defects ...

Poka-yoke is a Japanese term that means "mistake-proofing" or "inadvertent error prevention". A poka-yoke is any mechanism in any process that helps an equipment operator avoid mistakes. Its purpose is to eliminate product defects by preventing, correcting, or drawing attention to human errors as they occur. The concept was formalised, and the term adopted, by Shigeo Shingo as part of the Toyota Production System.

Poka-yoke - Wikipedia

Poka-Yoke: Improving Product Quality by Preventing Defects (Improve Your Product Quality!) by Nikkan Kogyo Shimbun at AbeBooks.co.uk - ISBN 10: 0915299313 - ISBN 13: 9780915299317 - Productivity Press - 1989 - Hardcover

9780915299317: Poka-Yoke: Improving Product Quality by ...

The purpose of Poka-Yoke is to develop processes to reduce defects by avoiding or correcting (design to show alerts or warning messages to the user) mistakes in early design and development phases. This technique is mostly used in manufacturing industries but now this effective technique is also adapted to software development processes as well.

How to Use Poka-Yoke Technique to Improve Software Quality

Commonly used within Lean manufacturing, Poka-Yoke is used to minimize production errors and maximize results. To do so, five stages are used to achieve Lean process in manufacturing: define, measure, analyse, improve, and control. WIP Limits. Work-in-process (or WIP) limits implement fixed constraints for your team in each step of the workflow ...

What Is a Lean Process: Key Concepts, Applications ...

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Kaizen is a concept referring to business activities that continuously improve all functions and involve all employees from the CEO to the assembly line workers. Kaizen (改善) is the Sino-Japanese word for "improvement". Kaizen also applies to processes, such as purchasing and logistics, that cross organizational boundaries into the supply chain. It has been applied in healthcare ...

Kaizen - Wikipedia

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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.)

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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.

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.

Unique coverage of manufacturing management techniques--complete with cases and real-world examples. Improving Production with Lean Thinking picks up where other references on production processes leave off. It is increasingly important to integrate and systematize lean thinking throughout production/manufacturing and the supply chain because the market is becoming more competitive, products are becoming more complex, and product life is getting shorter and shorter. With a practical focus, this book encompasses the science and analytical background for improving manufacturing, control, and design. It covers specific methodologies and tools for: * Material flow and facilities layout, including a six step layout design process * The design of cellular layouts * Analyzing and improving equipment efficiency, including Poka-Yoke, motion study, maintenance, SMED, and more * Environmental improvements, including 5S implementation With real-life case studies of successful European and American approaches to lean manufacturing, this reference is ideal for engineers, managers, and researchers in manufacturing and production facilities as well as students. It bridges the gap between production/manufacturing and supply chain techniques and provides a detailed roadmap to improved factory performance.

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

Here is a great introduction to the remarkable mind of Shigeo Shingo, indisputably one of the great forces in manufacturing. In this soft cover book, Dr. Shingo describes his approach to manufacturing improvements, developed and refined over the course of a brilliant career. He called it the Scientific Thinking Mechanism (STM). The Sayings of Shigeo Shingo leads you through the five stages of STM, with appropriate examples taken from notes Dr. Shingo collected during his consulting trips to American and Japanese plants. It shows how, in many cases, the most brilliant ideas are often so simple they're overlooked. Or they're dismissed because they seem ridiculous: - A Japanese plant, after first rejecting the idea as too silly, finds that unhulled rice is ideal for smoothing the rough surfaces on pressure-formed ebonite switches - Granville-Phillips, in Boulder, Colorado, reduced defects to zero in one process after Dr. Shingo suggested illuminating circuit boards from below to reduce errors involved in the insertion of diodes and resistors The Sayings of Shigeo Shingo is must reading for plant managers and engineers. It formalizes the powerful and creative way of thinking that Shingo himself used time and again to overcome problems that seemed virtually insurmountable.

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.

Here's the quickest and most inexpensive way to learn about the pioneering work of Shigeo Shingo, co-creator (with Taiichi Ohno) of just-in-time. It's an introductory book containing excerpts of five of his classic books as well as an excellent introduction by Professor Robinson.

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