Lean Manufacturing For The Small Shop

Lean Thinking was launched in the fall of 1996, just in time for the recession of 1997. It told the story of how American, European, and Japanese firms applied a simple set of principles called 'lean thinking' to survive the recession of 1991 and grow steadily in sales and profits through 1996. Even though the recession of 1997 never happened, companies were starving for information on how to make themselves leaner and more efficient. Now we are dealing with the recession of 2001 and the financial meltdown of 2002. So what happened to the exemplar firms profiled in Lean Thinking? In the new fully revised edition of this bestselling book those pioneering lean thinkers are brought up to date. Authors James Womack and Daniel Jones offer new guidelines for lean thinking firms and bring their groundbreaking practices to a brand new generation of companies that are looking to stay one step ahead of the competition.

This book, written by the author of the award-winning best-seller 'Lean Manufacturing for the Small Shop, ' describes six sigma, what it is, and how it is used in smaller companies. While it concentrates on six sigma in the small shop environment, it shows the relationship between continuous improvement, lean, and quality. This book focuses on implementation for operators and team leaders, as well as managers and job shop owners. It explains how continuous improvement tools support each other and can accomplish what one or two tools (on their own) cannot. A special hands-on CD-ROM is included with this book, which can help make the DMAIC (Define, Measure and Analyze, Improve, Control) process easier for obtaining six-sigma quality

This book provides some recent research advances in the field of lean manufacturing. Its content is of interest to students in management and production engineering. Topics covered include Just in Time (JIT), Kaizen activities and Critical Metrics. The chapters are written by worldwide well-known experts in the field.

Since the 1980s, Lean and Six Sigma have been used independently to make existing processes better, faster and more cost effective. For almost twenty years, countless companies have embraced the power of blending the two process improvement methodologies. This has resulted in major financial successes throughout the world, but no one denies that we have learned a lot in the last two decades. Just in time to meet the challenges we will experience in 2020, and beyond, SSD Global Solutions has introduced Leaner Six Sigma (LrSS). LrSS makes the concepts and tools within these two popular methodologies easier and quicker to understand. Regardless, if you plan to take an industry-standard exam or simply want to apply critical-thinking and problem-solving models to your daily life, this book helps you rapidly navigate your path. Originally, to steer our way through traditional Six Sigma, it was necessary to understand complicated statistics. Then, with Lean, the heavy emphasis on manufacturing made it difficult to apply theories to the service sector. After the combination of Lean and Six Sigma became widespread, many of the core concepts still involved understanding historical references. Fast-forward, we now have spreadsheet-based calculators and programs that build charts and graphs in a couple of clicks. Many "Best Practices" have been established which allows for process improvements without re-inventing the wheel. Over the years, talented subject matter experts and practitioners have discovered useful shortcuts to make Lean Six Sigma, Leaner. This groundbreaking work shows how LrSS reduces the learning curve for those unfamiliar with quality initiatives. It streamlines the fundamentals for students wanting to take exams in Lean, Six Sigma or Lean Six Sigma. LrSS also provides the mature Lean Six Sigma practitioner, innovative techniques to explain Lean Six Sigma theories to the new user. Lean Six Sigma has served us well, but it is time to utilize all the lessons learned and software tools available today. It is time to embrace next-generation thinking with Leaner Six Sigma! Terra Vanzant Stern, PhD is also the author of Lean and Agile Project Management: How to Make Any Project Better, Faster, and More Cost Effective.

Examines Japan's innovative, highly successful production methods

What is Lean? Pure and simple, lean is reducing the time from customer order to manufacturing by eliminating non-value-added waste in the production stream. The ideal of a lean system is one-piece flow, because a lean manufacturer is continuously improving. Most other books on lean management focus on technical methods and offer a picture of how a lean system should look like. Other books provide snapshots of companies before and after lean was implemented. This is the first book to provide technical descriptions of successful solutions and performance improvements. It's also the first book to go beyond snapshots and includes powerful first-hand accounts of the complete process of change; its impact on the entire organization; and the rewards and benefits of becoming lean. At the heart of Becoming Lean are the stories of American manufacturers that have successfully implemented lean methods. The writers offer personalized accounts of their organization's lean transformation. You have a unique opportunity to go inside the implementation process and see what worked, what didn't, and why.

Lean Software Development: An Agile Toolkit Adapting agile practices to your development organization Uncovering and eradicating waste throughout the software development lifecycle Practical techniques for every development manager, project manager, and technical leader Lean software development: applying agile principles to your organization In Lean Software Development, Mary and Tom Poppendieck identify seven fundamental "lean" principles, adapt them for the world of software development, and show how they can serve as the foundation for agile development approaches that work. Along the way, they introduce 22 "thinking tools" that can help you customize the right agile practices for any environment. Better, cheaper, faster software development. You can have all three–if you adopt the same lean principles that have already revolutionized manufacturing, logistics and product development. Iterating towards excellence: software development as an exercise in discovery Managing uncertainty: "decide as late as possible" by building change into the system. Compressing the value stream: rapid development, feedback, and improvement Empowering teams and individuals without compromising coordination Software with integrity: promoting coherence, usability, fitness, maintainability, and adaptability How to "see the whole"–even when your developers are scattered across multiple locations and contractors Simply put, Lean Software Development helps you refocus development on value, flow, and people–so you can achieve breakthrough quality, savings, speed, and business alignment.

Lean Manufacturing for the Small Shop, Second EditionSociety of Manufacturing Engineers

If your manufacturing organization is slow and inefficient, it's time to slim down. Here's a proven "weight loss" plan.

Readers will learn how to integrate quality and reliability control, machine tool maintenance, production and inventory control, and suppliers into the linked-cell system for one-piece parts movement within cells and small-lot movement between cells.

The Lean concepts and principles described in this book have revolutionized manufacturing practice and business conduct in a manner similar to what Henry Ford’s system did for mass manufacturing. Lean production however, involves much more than the adoption of methods and procedures, it requires a change in management philosophy that emphasizes relationship building, trust, and responsibility being conferred to frontline workers and suppliers. Based on three decades of teaching experience, Lean Production for a Competitive Advantage: A Comprehensive Guide to Lean Methodologies and Management Practices introduces the Lean philosophy and illustrates the effective application of Lean tools with real-world case studies. From fundamental concepts to integrated planning and control in pull production and the supply chain, the text provides a complete introduction to Lean production. Coverage includes small batch production, setup reduction, pull production, preventive maintenance, standard operations, as well as synchronizing and scheduling lean operations. Detailing the key principles and practices of Lean production,

the text also: Illustrates effective implementation techniques with case studies from a range of industries Includes questions and completed problems in each chapter Explains how to effectively partner with suppliers and employees to accomplish productivity goals Designed for students who have a basic foundation in production and operations management, the text provides a thorough understanding of the fundamental principles of Lean. It also offers practical know-how for implementing a culture of continuous improvement on the shop floor or in the office, creating a heightened sense of responsibility and pride in all stakeholders involved, and enhancing productivity and efficiency to improve the bottom line. Instructor’s material available – please contact: orders@taylorandfrancis.com or call 1-800-634-7064 to request these materials.

There are some very good books available that explain the Lean Manufacturing theory and touch on implementing its techniques. However, you cannot learn "how to be" lean from merely reading the theory. And to be successful in the real-work environment you need a clear comprehension of how lean techniques work, rather than just a remote understanding of what they are. You need to know what does and does not work in different situations. And you need the benefit of practical experience in their implementation. Lean Manufacturing: Tools, Techniques, and How to Use Them gives you the benefit of author and practitioner William Feld's 15 years of hands-on experience - and the lessons he's learned. Feld provides insight into the appropriate use of assessment, analysis, design, and, most importantly, deployment of a successful lean manufacturing program. Packed with practical advice and tips but not bogged down in theory, this book covers how, why, when, and what to do while implementing lean manufacturing. It equips you with the tools and techniques you need along with an understanding of how and why they work. Feld explores why an integrated approach is so much more beneficial in securing sustained improvement. He focuses on the interdependency of the Five Primary Elements: organization, metrics, logistics, manufacturing flow, and process control. He describes a proven, applied approach to creating a lean program using these elements. To keep up globally, and even locally, your manufacturing operation must be responsive, flexible, predictable, and consistent. You must continually improve manufacturing operations and cultivate a self directed work force driven by output based, customer performance criteria. By applying what you learn from Lean Manufacturing: Tools, Techniques, and How to Use Them you can build a workforce - and an organization - with the capacity to satisfy world class expectations now and into the future.

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

When I was first given the job of managing a small plastics factory back in 1989, I quickly realized that most of the books and teaching on Lean Manufacturing were designed for big companies and were not relevant to my factory. —Tim Mclean The last 25 years has seen Tim lead and assist over 100 small to medium-sized enterprise (SME) manufacturing operations. This experience has now been condensed in to Grow Your Factory, Grow your Profits: Lean for Small and Medium-Sized Manufacturing Enterprises, a start-to-finish guide on how to run a successful small and medium-sized manufacturing operation. The book presents case studies, practical examples, illustrations, charts, and pictures from real SME manufacturers to provide straightforward solutions to the issues facing every growing manufacturing business. In the book, Tim McLean explains: How to recruit the right people and design the right organization How to empower those people to take accountability and free yourself up from day to day "fire fighting" How to develop a Lean Plant Layout that will maximize productivity and optimize the use of space How to manage materials in order to slash inventory and shortages How to schedule production in order to cut lead times, cut inventory, and delight customers How to get started on a Lean transformation when you lack the resources of a big company The book details how SMEs differ from large organizations and why the approach to improvement must also be different. Covering the complete life cycle of small and medium-sized manufacturers, the book addresses a different SME manufacturing issue in each chapter. This enables readers to tackle issues at their own pace and in their own order of priority. Grow Your Factory, Grow Your Profits is essential reading for owners, managers, and operational leaders in the 90 percent of manufacturing enterprises that are small or medium sized.

Introduces the philosophy and tools of Lean, which is designed to help eliminate waste and maximize the effectiveness of resources, covering management theories, value-stream mapping, and pitfalls to avoid.

Alex Rogo is a harried plant manager working ever more desperately to try and improve performance. His factory is rapidly heading for disaster. So is his marriage. He has ninety days to save his plant - or it will be closed by corporate HQ, with hundreds of job losses. It takes a chance meeting with a colleague from student days - Jonah - to help him break out of conventional ways of thinking to see what needs to be done. Described by Fortune as a 'guru to industry' and by Businessweek as a 'genius', Eliyahu M. Goldratt was an internationally recognized leader in the development of new business management concepts and systems. This 20th anniversary edition includes a series of detailed case study interviews by David Whitford, Editor at Large, Fortune Small Business, which explore how organizations around the world have been transformed by Eli Goldratt's ideas. The story of Alex's fight to save his plant contains a serious message for all managers in industry and explains the ideas which underline the Theory of Constraints (TOC) developed by Eli Goldratt. Written in a fast-paced thriller style, The Goal is the gripping novel which is transforming management thinking throughout the Western world. It is a book to recommend to your friends in industry - even to your bosses - but not to your competitors!

In the 1950’s, the design and implementation of the Toyota Production System (TPS) within Toyota had begun. In the 1960’s, Group Technology (GT) and Cellular Manufacturing (CM) were used by Serck Audco Valves, a high-mix low-volume (HMLV) manufacturer in the United Kingdom, to guide enterprise-wide transformation. In 1996, the publication of the book Lean Thinking introduced the entire world to Lean. Job Shop Lean integrates Lean with GT and CM by using the five Principles of Lean to guide its implementation: (1) identify value, (2) map the value stream, (3) create flow, (4) establish pull, and (5) seek perfection. Unfortunately, the tools typically used to implement the Principles of Lean are incapable of solving the three Industrial Engineering problems that HMLV manufacturers face when implementing Lean: (1) finding the product families in a product mix with hundreds of different products, (2) designing a flexible factory layout that "fits" hundreds of different product routings, and (3) scheduling a multi-product multi-machine production system subject to finite capacity constraints. Based on the Author’s 20+ years of learning, teaching, researching, and implementing Job Shop Lean since 1999, this book Describes the concepts, tools, software, implementation methodology, and barriers to successful implementation of Lean in HMLV production systems Utilizes Production Flow Analysis instead of Value Stream Mapping to eliminate waste in different levels of any HMLV manufacturing enterprise Solves the three Industrial Engineering problems that were mentioned earlier using software like PFAST (Production Flow Analysis and Simplification Toolkit), Sgetti and Schedlyzer Explains how the one-at-a-time implementation of manufacturing cells constitutes a long-term strategy for Continuous Improvement Explains how product families and manufacturing cells are the basis for implementing flexible automation, machine monitoring, virtual cells, Manufacturing Execution Systems, and other elements of Industry 4.0 Teaches a new method, Value Network Mapping, to visualize large multi-product multi-machine production systems whose Value Streams share many processes Includes real success stories of Job Shop Lean implementation in a variety of production systems such as a forge shop, a machine shop, a fabrication facility and a shipping department Encourages any HMLV manufacturer planning to implement Job Shop Lean to leverage the co-curricular and extracurricular programs of an Industrial Engineering department

A how-to guide to shortening delivery times, eliminating waste, improving quality, and reducing costs. It describes not only what to do, but includes many tools useful to the reader describing how to do it. It explores tools including kaizen, value stream mapping, takt time, determining optimum lot sizes, setup reduction and problem solving.

55% Off Wholesale Discount!!! This Is How The World's Top Tech Companies Manage Their Projects - Use Their Methods And Let Your Startup Thrive! This book includes: Lean Startup, Lean Enterprise, Lean Analytics, Agile Project Management, Lean Six Sigma, Kaizen Do you want to run your small business using the same strategies as the leaders in your field? Do you want to have a clear advantage over your competitors? Do you want your customers to be happy and eager to pay you even more? It's time to learn Lean! With Lean Project Management, you can create high-quality products in less time. You can manage projects in a way that actually empowers and motivates your employees. Last but not least, your customers will LOVE working with you if your company uses Lean and Agile methods. This book will show you how to implement Lean methods in your startup and take it to the next level! With this book, you will: Learn the step-by-step process of managing Lean projects Maximize your team's productivity with Scrum Visualize your workflows with Kanban Understand Lean Six Sigma roles and management boards Explore The 5S system - pros and cons Use Lean Analytics to measure the metrics that matter Adopt the Kaizen mindset to encourages growth and positive change Grow and scale your thriving business! The Lean mindset is your key to maximum productivity and genuine leadership. It's your key to innovation and success (and making more money in the process). You can use it to manage everything from your personal projects to a thriving corporation - Lean is scalable, flexible, and empowering. In fact, Lean Project Management can be used in all fields and industries - so dive in and transform your business now! Your Customers Will Get Addicted To This Book!!! Order Now!!!

This book helps business leaders see how employees, companies, and missions all interact with each other, as well as with society at large, in systems and subsystems at various levels. It helps leaders learn how to connect the dots, becoming customer-centric in everything they do and then spreading the same goals down to their supply chains. The book discusses what is, and what is not, leadership, covering such topics as statistics-based management, process-improvement, and human resources. The author accomplishes this through a blend of Lean culture and managerial theory, as well as his military experience. In addition, the author contrasts many opposing subjects, such as efficiencies of scale versus efficiencies of build, automation versus process improvement, process innovation versus product innovation, technical versus tactical proficiency, and pull versus push production. With most books focused on Lean initiatives, there is a tremendous amount of benefit involved in creating customer value while reducing waste, but this book takes a holistic approach, blending in modern managerial theory, team leadership skills, and economics. The result is a book that changes how the reader approaches business. Essentially, the purpose of this book is to blend modern management theories with the culture of Lean (and perhaps a sprinkling of economics) to show current business leaders how to create organizations that are as customer-oriented and highly efficient in delivering value as possible. If one thinks of each role in an organization as a spot on an assembly line, where everything each person does creates output someone else uses, the question becomes whether or not each person's activities maximize the effectiveness of others. Do we, as organizations, set ourselves up for success or for failure? Most companies, if they answer honestly, would say, "A little bit of both." This book is about helping those companies improve.

The author provides a methodology to implement Lean manufacturing in a small company. The author provides the reader with tactics, techniques and ideas on the implementation process and, in Appendix B, includes a list of helpful resources. Appendix A is an example of implementation.

Lean manufacturing is the single most effective way to increase sales, cut costs, improve margins, and secure the future of a business. The problem is that the principles and philosophies of lean manufacturing are geared strictly to mass production operations and can be ineffective, even detrimental, for smaller job shops and make-to-order businesses. Now, Speed to Market delivers a proven approach for smaller suppliers who want to successfully cut their lead time and trigger profitable growth. Completely updated and expanded, the book explains how to: * Apply the principles of pull, flow, and the elimination of waste to every area of the company, at every stage from quotes to cash* Implement a continuous improvement process while sidestepping the typical implementation pitfalls* Ease scheduling problems* Improve performance and profitability using the book's practical concepts, process analysis tools, and perspective-enhancing techniques and much more

A hands-on guide to adapting Lean principles and the Toyota Production System to high-mix/low-volume environments, Lean Production for the Small Company uses charts, pictures, and easy-to-understand language to describe the methods needed to improve processes and eliminate waste. It walks readers through the correct order of implementation and desc

It is no secret that Lean Six Sigma (LSS) is not as popular with small and medium-sized enterprises (SMEs) as it is with larger ones. However, many SMEs are suppliers to larger entities who are pushing for superior quality and world-class process efficiencies from suppliers. Lean Six Sigma for Small and Medium Sized Enterprises: A Practical Guide provides a roadmap for the successful implementation and deployment of LSS in SMEs. It includes five real-world case studies that demonstrate how LSS tools have been successfully integrated into

LSS methodology. Simplifying the terminology and methodology of LSS, this book makes the implementation process accessible. Supplies a general introduction to continuous improvement initiatives in SMEs Identifies the key phases in the introduction and development of LSS initiatives within an SME Details the most powerful LSS tools and techniques that can be used in an SME environment Provides tips on how to make the project selection process more successful This book covers the fundamental challenges and common pitfalls that can be avoided with successful introduction and deployment of LSS in the context of SMEs. Systematically guiding you through the application of the Six Sigma methodology for problem solving, the book devotes separate chapters to the most appropriate tools and techniques that can be useful in each stage of the methodology. Keeping the required math and statistics to a minimum, this practical guide will help you to deploy LSS as your prime methodology for achieving and sustaining world-class efficiency and effectiveness of critical business processes.

This is the true story of how, armed with only Lean improvement methodologies, a specially trained Toyota Lean expert purchased a business he knew nothing about, applied Lean techniques, and succeeded in doubling sales and increasing profitability, before he finally sold the thriving business. With humility and humor, the author recounts his successes and failures, introduces his key employees and their struggles with change, and provides motivation and simple ideas for all readers looking to improve their businesses. He captures key points highlighted in text boxes and includes illustrative photos and examples of Lean tools at work. This story dispels the fallacy that Lean management does not achieve excellent results in high variation companies and job shops. Toyota’s OSKKK methodology is introduced to understand processes and guide a Lean transformation on the shop floor and in the office.

Proven to increase efficiencies in the manufacturing sector, Standard Work has become a key element in reducing process waste, ensuring patient safety, and improving healthcare services. Part of the Lean Tools for Healthcare Series, this reader-friendly book builds on the success of the bestselling, Standard Work for the Shopfloor. Standard Work for Lean Healthcare explains how to apply this powerful Lean tool to increase patient safety and reduce the cost of providing healthcare services. It illustrates how standardization can help you establish best practices for performing daily work and why it should be the cornerstone for all of your continuous improvement efforts. Presented in an easy-to-assimilate format, the book describes work in terms of cycle time, work in process, takt time, and layout. It also: Defines the key concepts of standard work and explores the essential elements of a continuous improvement culture Provides detailed guidance through the process of creating, maintaining, and improving standards Illustrates the application of standardization and standard work in healthcare with a range of examples Includes access to helpful websites and further reading on standardization, standard work, the 5S System, and Lean healthcare A joint effort between the Rona Consulting Group and Productivity Press, this book presents invaluable insights from pioneers in Lean thinking to help you avoid common mistakes that can lead to unnecessary wastes of time and resources. Each richly illustrated chapter includes a chapter summary, reflection questions, and margin assists that highlight key terms, how-to steps, and healthcare examples—making this an essential resource for healthcare professionals starting out on their Lean journey.

Large manufacturing organizations have been achieving productivity improvements for decades using what is commonly known as lean production. Less is known about the extent to which small- and medium-sized firms (SMEs) have also benefited from the adoption of lean practices. The purpose of this paper is to investigate how small and large printers differ in their adoption of lean management practices. We find that while both small and large printers view lean production as an important contributor to future profits, small- and medium-sized printers are lagging in their adoption of a range of lean practices. In addition, we found that smaller printers used significantly fewer printing units, while producing a significantly higher range of print products. We argue that this operational configuration may place some smaller printers at a particular disadvantage when it comes to implementing lean systems. We discuss how small printers may wish to approach lean production given these operational constraints.

A new book from the Lean Manufacturing Expert Sebastian Brau, presenting techniques, software, procedures and tricks to get the maximum performance from your Lean project by the use of current available technologies in factories. You will learn how to: 1.- Implement the 'Active Inventory' methodology to prevent your factory from having any stockout ever again. 2.- Use 'lean markers' to detect productivity deviations in your operations more easily. 3.- Merge Kaizen and Pareto to complete your 'continuous improvement' cycles faster and cheaper. 4.- Transform the quality controls in your factory into plant sensors to build a 'digital nervous system'. 5.- Use simple plant records to automatically feed your ERP. 6.- Implement a Material Traceability control that does not jeopardize your operation's productivity with unnecessary costs. 7.- Use SMED video guides to reduce the need to train your staff and the global time for the Lean project to be implemented. 8.- Implement a time control for your staff without offending susceptibilities in the factory. 9.- Know how the new North American Law 'FSMA' can affect your operation if you do not anticipate its effects. A different Lean book written by a Robotics and Artificial Intelligence Software Engineer with more than 20 years' experience in implementing Lean Manufacturing and structured with the different technological viewpoint that his specialized profile allows, in the form of "Practical guide on the correct use of Technology in a Lean Project"

Cutting-edge Lean manufacturing strategies Thoroughly updated with the latest trends and new global case studies, How to Implement Lean Manufacturing, Second Edition, explains how to implement this powerful formula for eliminating waste, controlling quality and inventory, and improving overall performance across an enterprise environment. The book addresses the engineering and production aspects as well as the business culture challenges. This practical guide describes the Toyota Production System (TPS) and specifies the distinct order in which Lean techniques should be applied to achieve maximum gains. By using the proven methods in this definitive resource, you can implement a successful Lean transformation in your organization. Find how to: Create and deploy enterprise-wide strategies and goals Improve speed and quality and dramatically lower costs Reduce variation in the manufacturing system in order to reduce inventory Reduce lead times to improve responsiveness and flexibility Sustain process gains Perform system-wide value-stream evaluations Manage constraints and reduce bottlenecks Implement cellular manufacturing New material in the Second Edition reveals how to: Avoid the typical management pitfalls and implementation errors that virtually guarantee a Lean transformation will fail Implement the new skills of Lean leadership, including its six key elements Shape and manage your culture using the five cultural change leading indicators

A Practical, Hands-on Guide to Lean Manufacturing This real-world resource offers proven solutions for implementing lean manufacturing in an enterprise environment, covering the engineering and production aspects as well as the business culture concerns. Filled with detailed examples, the book focuses on the rapid application of lean principles so that large, early financial gains can be made. How to Implement Lean Manufacturing explains Toyota Production System (TPS) practices and specifies the distinct order in which lean techniques should be applied to achieve maximum gains. Global case studies illustrate successes and pitfalls of lean manufacturing initiatives. Discover how to: Rigorously test and retest the state of your "leanness" with unique

evaluators Develop and deploy plant-wide strategies and goals Improve speed and quality and dramatically reduce costs Reduce variation in the manufacturing system in order to reduce inventory Reduce lead times to enable improved responsiveness and flexibility Synchronize production and supply to the customer Create flow and establish pull-demand systems Perform system-wide and specific value-stream evaluations Generate a comprehensive list of highly focused Kaizen activities Sustain process gains Manage constraints and reduce bottlenecks Implement cellular manufacturing