Innovating Lean Six Sigma A Strategic Guide To Deploying The Worlds Most Effective Business Improvement Process | a9f510b11de476ed6aa42047c3e7962


The Innovation Tools Handbook, Volume I

This is an invaluable collection of best practices to guide you as to when and how to use a specific Six Sigma tool or technique.

Leaner Six Sigma

DELIVER FASTER, BETTER, AND CHEAPER HEALTHCARE IN AS FEW AS FIVE DAYS 4 STAR DOODY’S REVIEW! "The main purpose is to present simple steps to help hospitals start getting faster, better, and cheaper in five days or less while achieving the goal of fast, affordable, and flawless healthcare. Healthcare has many opportunities for improvement and the use of Lean Six Sigma concepts can make a dramatic impact. This book provides the basic information to do that."—Doody’s Review Service Lean Six Sigma for Hospitals: Simple Steps to Fast, Affordable, Flawless Healthcare explains how to use tested Lean Six Sigma methods and tools to rapidly improve hospital operations and quality of care and reduce costs. These proven strategies follow the patient from the front door of the hospital or emergency room all the way through discharge, examining key aspects of patient flow and quality. The trail of billing and collections is also followed to discover and eliminate cash flow leaks. This practical guide emphasizes both the clinical and operational sides to reduce the “three demons of quality”—delay, defects, and deviation. Real-world case studies from major hospitals illustrate successful implementations of Lean Six Sigma. Coverage includes: Achieving a faster, better hospital in five days—emergency department, door-to-balloon time, operating room, medical imaging, lab, nursing unit, clinical staff, pharmacy, order accuracy, diagnosis, ICU Lean for accelerated patient flow Reducing medical errors with Six Sigma Creating a more profitable hospital in five days by reducing denied, rejected, and appealed claims Six Sigma for hospitals Excel power tools for Lean Six Sigma Identifying improvement projects through data mining and analysis Sustaining improvement using control charts Laser-focused process innovation Statistical tools for Lean Six Sigma Implementing Lean Six Sigma

Sustainability

An Integrated Company-Wide Management System

Praise for The Lean Six Sigma guide to Doing More with Less "At Frito Lay, we have applied many of the concepts and tools in this book, and we are realizing a five to seven times return on our annual Lean Six Sigma investment."—Tony Mattei, Lean Six Sigma Director, Frito Lay "Ecolab has experienced a sustainable, competitive advantage through Lean Six Sigma. The principles in this book are helping us drive greater value for our share-holders, better service for our customers, and talent development opportunities for our associates."—Jeffrey E. Burt, Vice President and Global Deployment Leader, Lean Six Sigma, Ecolab "This book gives excellent insights into Lean Six Sigma and its strong impact within different industries. We used Lean Six Sigma in numerous process improvement projects, which, in turn, helped to create momentum and set up a process improvement culture. Amid a challenging economic environment, we are accelerating this initiative globally."—Satheesh Mahadevan, Directeur des Processus, Société Générale "Our Lean Six Sigma deployment of the concepts and tools described in this book is transforming our business—with tangible benefits for our employees, customers, suppliers, and shareholders."—Jeffrey Hersfeld, Sr. Vice President and General Manager, Teva Pharmaceuticals USA "We have deployed the holistic Lean Six Sigma strategy described by Mark George across our enterprise. It is providing remarkable returns for Unum."—Bob Best, Chief Operating Officer, Unum "The Lean Six Sigma Guide to Doing More with Less presents a comprehensive view of operations transformation, the approaches required for success, leadership's role, and the competitive advantage that results. Transformational changes are enabling us to do more with less, by investing and working smarter."—Ted Doheny, President
The World's Most Effective Business Improvement Process


In Accelerated Product Development: Combining Lean and Six Sigma for Peak Performance, Clifford Fiore provides the blueprint for implementing the key elements for improving the product development process. His innovative and powerful work represents the first book to couple the proven concepts of Lean and Six Sigma with the engineering processes of product development. His results, based on proven strategies and methodologies, enable companies to significantly reduce the time necessary to develop new products, dramatically reduce product cost, and improve product quality.

Lean Acres

Simple Steps to Improve Patient Safety, Patient Flow and the Bottom Line A Doody’s Core Title for 2020! This thoroughly revised resource shows, step-by-step, how to simplify, streamline, analyze, and optimize healthcare performance using tested Lean Six Sigma and change management techniques. Lean Six Sigma for Hospitals, Second Edition, follows the patient from the front door of the hospital or emergency room all the way through discharge. The book fully explains how to improve operations and quality of care while dramatically reducing costs—often in just five days. Real-world case studies from major healthcare institutions illustrate successful implementations of Lean Six Sigma. Coverage includes: • Lean Six Sigma for hospitals, emergency departments, operating rooms, medical imaging facilities, nursing units, pharmacies, and ICUs • Patient flow and quality • Clinical staff • Order and claims accuracy • Billing and collection • Defect and medical error reduction • Excel power tools for Lean Six Sigma • Data mining and analysis • Process flow charts and control charts • Laser-focused process innovation • Statistical tools for Lean Six Sigma • Planning and implementation

Innovating Lean Six Sigma: A Strategic Guide to Deploying the World’s Most Effective Business Improvement Process

"Randy has crafted an invaluable book, no matter where you are in the journey of organizational change management. A must-have guide you will refer to again and again." – Marshall Goldsmith, author of the #1 New York Times bestseller, Triggers. "Randy Kesterson recognizes that much of the energy that organizations put into Lean and Six Sigma improvements is wasted when the results are not applied effectively due to the organization’s resistance to change." – Ellen Domb, Ph.D. PQM, one of the world’s top 50 quality experts at QualityGurus.com "Finally, a book that recognizes that most organizations are on the left side of the FAT–LEAN continuum. Far too many organizations think they are Lean/Six Sigma mature only to realize that they aren’t even close." – Gerhard Plenert, Ph.D., serves as Director of Excellence and executive, Shingo Institute, Home of the Shingo Prize The Intersection of Change Management and Lean Six Sigma: The Basics for Black Belts and Change Agents is for Lean and Six Sigma professionals working inside organizations with low Lean maturity and significant resistance to change. Written by a business executive and certified Lean Six Sigma black belt, this book: Provides sound, innovative practices for those interested in successfully navigating organizational change. Focuses on culture change and mindsets, not just tools and applications. Stresses effective communication ensuring that various stakeholders understand the reasons for the change, the benefits, and the details. Illustrates how the benefits of Lean and Six Sigma initiatives can benefit the change management process. This book pinpoints and examines the intersection of change management and Lean Six Sigma. It features interviews with change management practitioners (executives, project managers, and black belts) and provides pertinent case studies detailing successful and failed changes.

Design for Six Sigma

The Breakthrough Program for Increasing Quality, Shortening Cycle Times, and Creating Shareholder Value In Every Area of Your Organization Time and quality are the two most important metrics in improving any company’s production and profit performance. Lean Six Sigma explains how to impact your company’s performance in each, by combining the strength of today’s two most important initiativesLean Production and Six Sigma into one integrated program. The first book to provide a step-by-step roadmap for profiting from the best elements of Lean and Six Sigma, this breakthrough volume will show you how to: Achieve major cost and lead time reductions this year Compress order-to-delivery cycle times Battle process variation and waste throughout your organization Separately, Lean Production and Six Sigma have changed the face of the manufacturing business. Together, they become an unprecedented tool for improving product and process quality, production efficiency, and across-the-board profitability. Lean Six Sigma introduces you to today’s most dynamic program for streamlining the performance of both your production department and your back office, and providing you with the cost reduction and quality improvements you need to stay one step ahead of your competitors. ‘Lean Six Sigma shows how Lean and Six Sigma methods complement and reinforce each other. If also provides a detailed roadmap of implementation so you can start seeing significant returns in less than a year.”--From the Preface Businesses fundamentally exist to provide returns to their stakeholders. Lean Six Sigma outlines a program for combining the synergies of these two initiatives to provide your organization with greater speed, less process variation, and more bottom-line impact than ever before. A hands-on guidebook for integrating the production efficiencies of the Lean Enterprise with the cost and quality tools of Six Sigma, this breakthrough book features detailed insights on: The Lean Six Sigma Value PropositionHow combining Lean and Six Sigma provides unmatched potential for improving shareholder value The Lean Six Sigma Implementation ProcessFlow to prepare your organization for a seamless incorporation of Lean Six Sigma tools and techniques Leveraging Lean Six
Strategies for extending Lean Six Sigma’s reach within and beyond your corporate walls "Variation is evil."--Jack Welch
Six Sigma was the zero-variation quality lynchpin around which Jack Welch transformed GE into one of the world’s most efficient and valuable corporations. Lean Production helped Toyota cut waste, slash costs, and substantially improve resource utilization and cycle times. Yet, as both would admit, there was still room for improvement. Lean Six Sigma takes you to the next level of improvement, one that for the first time unites product and process excellence with the goal of enhancing shareholder value creation. Providing insights into the application of Lean Six Sigma to both the manufacturing processes and the less-data-rich service and transactional processes, it promises to revolutionize the performance efficiencies in virtually every area of your organization as it positively and dramatically impacts your shareholder value.

The Innovator’s Toolkit

This book is for directors, consultants, practitioners, and professionals aspiring to effectively manage operations, but it is targeted at applying innovation to the management of operations, including supply chains. It is appropriate for those establishing a career in innovation and operations management. This book will: Equip readers with understanding of the nature of innovation, operations management concepts, business models, methods and tools; Explore best practices and most commonly used operations and innovation business models, methods, and tools used by successful organizations; Consider particular operational issues directly impact the competitiveness of organizations

Lean Six Sigma

Although Lean and Six Sigma appear to be quite different, when used together they have shown to deliver unprecedented improvements to quality and profitability. The Lean Six Sigma Black Belt Handbook: Tools and Methods for Process Acceleration explains how to integrate these seemingly dissimilar approaches to increase production speed while decreasing variations and costs in your organization. Presenting problem-solving tools you can use to immediately determine the sources of the problems in your organization, the book is based on a recent survey that analyzed Six Sigma tools to determine which are the most beneficial. Although it focuses on the most commonly used tools, it also includes coverage of those used a minimum of two times on every five Six Sigma projects. Filled with diagrams of the tools you’ll need, the book supplies a comprehensive framework to help you organize and process the vast amount of information currently available about Lean, quality management, and continuous improvement process applications. It begins with an overview of Six Sigma, followed by little-known tips for using Lean Six Sigma (LSS) effectively. It examines the LSS quality system, its supporting organization, and the different roles involved. Identifying the theories required to support a contemporary Lean system, the book describes the new skills and technologies that you need to master to be certified at the Lean Six Sigma Black Belt (LSSBB) level. It also covers the advanced non-statistical and statistical tools that are new to the LSSBB body of knowledge. Presenting time-tested insights of a distinguished group of authors, the book provides the understanding required to select the solutions that best fit your organization’s aim and culture. It also includes exercises, worksheets, and templates you can easily customize to create your own handbook for continuous process improvement. Designed to make the methodologies you choose easy to follow, the book will help Black Belts and Senseis better engage their employees, as well as provide an integrated and visual process management structure for reporting and sustaining continuous improvement breakthroughs and initiatives.

Lean Six Sigma For Dummies

Maximizing Lean Six Sigma Sustainability

Manufacturing Handbook of Best Practices: An Innovation, Productivity, and Quality Focus gives you a working knowledge of today's cutting edge tools - preparing you for the way you will be doing your job tomorrow. With contributions from seasoned manufacturing experts, the book provides a single-source reference to what’s currently happening in mod

The Framework for Innovation

Presented from the perspective of practitioners, researchers and academics, The Ten Commandments of Lean Six Sigma serves as a practical guide for senior managers and executives who want to achieve operational and service excellence in various manufacturing, service and public sector organizations.

Design for Six Sigma, Chapter 3 - Product Development Process and Design for Six Sigma

An introduction to the strategic choices that must be taken during an innovation process and a guide for designing the business processes for innovation including the whole supply chain. Innovation projects will gain in speed, efficiency, and cost-awareness and will become successful operations. The result of this methodology will support ISO 9001 and the Design for Lean Six Sigma methodology in a natural way. Cost saving and sustainable progress are in this philosophy complementary. “I believe DFSS project managers for manufacturing industries would certainly benefit from reading this publication, in particular companies that are relatively new in their implementation for Six Sigma and who just discovering the value of prevention in new product development (DFSS opportunity). I thoroughly enjoyed
the concepts and examples given by an expert in the field of Innovation Management and DFSS. I would highly recommend this book for any practitioner in the area of Lean Six Sigma and Design for Six Sigma.' - Robert W. Clarke, Director of XONITEK Corporation NY 13901, USA "Good work! This book gives a nice, high-level overview. Certainly risk management had some new points. The link with ISO makes it very useful for people with whom that is a priority." - John Bicheno, Director of Lean Operation Program at Cardiff Business School and Author of 'The Lean Toolbox: The Essential Guide to Lean Transformation'. Buckingham, UK "I thoroughly enjoyed reading this handbook as it was very well thought out. I'm unacquainted with Six Sigma however I was able to gain a clear perspective of what it entails due to the way in which the author shared her insight and experience." - Jason Weber, Web Marketing Manager Coby Electronics, Corp. New York, USA "This book is well organized, logical and offers a clear blueprint within the context of the subject and would be a good reference for someone looking to implement." - Robert (Bob) Smith, Managing Director B Hepworth Ltd, UK

ENOVALE

Bring the miracle of Lean Six Sigma improvement out of manufacturing and into services Much of the U.S. economy is now based on services rather than manufacturing. Yet the majority of books on Six Sigma and Lean—today's major quality improvement initiatives—explain only how to implement these techniques in a manufacturing environment. Lean Six Sigma for Services fills the need for a service-based approach, explaining how companies of all types can cost-effectively translate manufacturing-oriented Lean Six Sigma tools into the service delivery process. Filled with case studies detailing dramatic service improvements in organizations from Lockheed Martin to Stanford University Hospital, this bottom-line book provides executives and managers with the knowledge they need to: Reduce service costs by 30 to 60 percent Improve service delivery time by 50 percent Expand capacity by 20 percent without adding staff

Lean-Driven Innovation

This newly revised and updated companion for every innovator, innovation team leader, operations manager and corporate change agent presents, in an easy-to-use format, more than 50 tools and techniques for identifying innovation opportunities, generating new and unusual ideas and implementing new solutions.

Design for Lean Six Sigma

This book offers a comprehensive guide to implementing a company-wide management system (CWMS), utilising up-to-date methodologies of Lean-six sigma in order to achieve high levels of business excellence. It builds the foundation for quality and continuous improvement, which can be implemented in any organization. The book begins with an introduction to and an overview of CWMSs, and reviews the existing literature on various management systems. It then discusses the integration and implementation of lean-six sigma in supply chain management. The integration approach presented highlights the link between the existing management systems and shows how continuous improvement methodologies are incorporated. The book then examines the components of CWMS, comparing them to other systems. It also explores Kano-based six sigma and concludes with further recommendations for reading. This book covers five management systems integrated into one novel approach that can be followed by organizations wishing to achieve quality and business excellence. Covering lean-six sigma - an essential element of management systems - it is a valuable resource for practitioners and academics alike.

What is Lean Six Sigma

Without sustained innovation, most organizations will simply fade away. Explaining how to achieve sustained innovation success in today's increasingly competitive global environment, ENOVALE: How to Unlock Sustained Innovation Project Success provides a validated strategy for implementing innovation projects following the ENOVALEM methodology: envision the need, nominate, objectify, validate, align and adapt, link, and execute. The authors' first book, Chance or Choice: Unlocking Innovation Success, introduced a proven management process, using the ENOVALE methodology, for identifying innovation opportunities through validated outcomes. This book takes the outcome and provides a method—from project initiation to completion. Goes beyond the typical innovation book to outline specific solutions and strategies Includes templates, flow charts, tools, and strategies for each "means" of innovation Provides business examples of the philosophy, strategic elements, and success criteria that readers can easily relate to. The text begins by explaining what strategy means in terms of innovation and how it can be transformative for products, processes, and services. After an overview of innovation, the book discusses a series of strategies for each of the three means of innovation. These strategies outline a systematic process you can use to initiate and conduct your own innovation projects. The book includes numerous business examples that illustrate the authors' philosophy, strategic elements, and success criteria. After reading this book you will gain a solid understanding of five time-proven implementation strategies that can be applied to any type of innovation project.

Leading Lean

An effective and engaging way employees can learn Six Sigma and put its concepts into play Part of the popular Big Book of Games series, which capitalizes on the proven effective method for workplace training, this first book of training games for Six Sigma ensures that employees will better retain Six Sigma's complex topics. This invaluable tool offers 50 experiential activities that teach the core improvement approach of Six Sigma, called DMAIC (Define, Measure, Analyze, Improve, Control), as well as many of the popular statistical improvement tools, including Pareto charts and Failure Mode Effects

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Analysis (FMEA). These games: Teach Six Sigma roles and organization Gear the team up for success Identify problems and generate solutions Teach project management Help teams understand the need for Six Sigma

Treasure Chest of Six Sigma Growth Methods, Tools, and Best Practices

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.

Innovation Management Practice Handbook

Here is a chapter from an updated Design for Six Sigma, Second Edition, which has extensive new chapters and learning modules on innovation, lean product development, computer simulation, and critical parameter management—plus new thread-through case studies. This updated edition provides unrivalled real-world product development experience and priceless walk-throughs that help you choose the right design tools at every stage of product and service development. The book includes detailed directions, careful comparisons, and work-out calculations that make every step of the Design for Six Sigma process easier.

Lean Six Sigma for Service

Lean and Six Sigma initiatives are designed to enable sustained improvements in your company or organization’s efficiency and competitiveness. As with other improvement strategies they are dependent on two things, effective management and your ability to automate or digitize elements of your business process. Lean and Digitize provides you with a convincing picture of each of these elements (process improvement, digitization and the management of both) to help you eliminate waste, improve process and service, and better align your information and communications technology with your strategic objectives. Bernardo Nicoletti analyses and reviews the development of automation and telecommunications systems in the context of quality management and process improvement. He uses case examples to illustrate organizational and management approaches to implementation. These, along with his practical guidance, will help you make sense of the complexity, benefits and interrelations between these different elements. The text shows you on the one hand, how to integrate information and communication systems into your process improvement projects and, on the other, how to align information and communication projects with your quality strategy. Without a holistic approach to technology and quality improvement, your initiatives run the risk of being misdirected or simply running out of steam. Changes of this kind will never be easy but at least if you follow the advice in Lean and Digitize you will significantly increase your chances of success.

Accelerating Lean Six Sigma Results

The New and Definitive User’s Guide to Lean Six Sigma If you’re a business manager, you already know that Lean Six Sigma is one of the most popular and powerful business tools in the world today. You also probably know that implementing the process can be more than a little challenging. This step-by-step guide shows you how to customize and apply the principles of Lean Six Sigma to your own organizational needs, giving you more options, strategies, and solutions than you’ll find in any other book on the subject. With these simple, proven techniques, you can: * Assess your current business model and shape your future goals * Plan and prepare a Lean Six Sigma program that’s right for your company * Engage your leadership and your team throughout the entire process * Align your LSS efforts with the culture and values of your business * Develop deeper insights into your customer experience * Master the art of project selection and pipeline management * Tackle bigger problems and find better solutions * Become more confident and productive This innovative approach to the Lean Six Sigma process allows you to mold and shape your strategy as you go, making small adjustments along the way that can have a big impact. In this book, you’ll discover the most effective methods for deploying LSS at every level, from the leaders at the top to the managers in the middle to the very foundation of your company culture. You’ll hear from leading business experts who have guided companies through the LSS
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Lean Six Sigma Approaches in Manufacturing, Services, and Production

The innovation infrastructure and master plan described in this book offers a detailed and comprehensive approach to one of the most difficult and challenging problems facing entrepreneurs involved in innovation at any scale enterprise: the problem of how to govern your organization’s innovation initiatives in the middle of turbulent change. Progress in any field requires the development of a framework, a structure that organizes the accumulating knowledge, enables people to master it, and unifies the key discoveries into a set of principles that makes them understandable and actionable. For starters, successful innovation requires an integrated design process, beginning with integration in the design of the enterprise, the design of the product, along with the design and implementation of new technologies. Such an integrated design effort requires good collaboration and management of the design framework, and should be supported by efficient knowledge management techniques and tools; If innovation is to help a business grow and improve its competitiveness, it is also important to plan the innovation carefully. This book provides a holistic, multidisciplinary framework that will enable your organization and its leaders to take a strategic approach to innovation. The framework combines non-traditional, creative approaches to business innovation with conventional strategy development models. The framework model brings together perspectives from many complementary disciplines: the non-traditional approaches to innovation found in the business creativity movement; multiple-source strategy consulting; the new product development perspective of many leading industrial design firms; qualitative consumer/customer research; future-based research found in think tanks and traditional scenario planning; and organizational development (OD) practices that examine the effectiveness of an organization’s culture, processes, and structure. Though some ideas may just "fall from the sky" or "come out of the blue", an organization should also have a strategic vision of how the business and the enterprise will successfully develop. It should not just wait for the innovation to arrive arbitrarily, but rather proactively plan for innovation incorporating market trends, the competitive landscape, new technology availability, and changes in customer preferences and trends in order to create a flexible in-house innovation process. Such an enterprise will also pro-actively manage the knowledge supply chain that supports innovation, as outlined in this book #7 of Management Handbook for Results series. The framework outlined in this handbook consists of a well-integrated cohesive set of practices that inspires imaginative innovation teams to look beyond the obvious and explore a broad range of possibilities to identify significant opportunities and make informed decisions about the most promising paths to pursue. The goal is to create a shared vision for growth, along with defining pragmatic action plans that bridge from the future back to the present, while attempting to align the organization around the requirements for success.

Manufacturing Handbook of Best Practices

The Intersection of Change Management and Lean Six Sigma

This title provides real direction on organizational improvement initiatives. It includes sections on leadership, business infrastructure and new applications to key strategic areas of the business.

Best Buy

Use Six Sigma to achieve and sustain excellence in product development and commercialization! To sustain growth and profitability, companies must tightly align product development and commercialization to fast-changing customer requirements. In this book, Clyde Creveling identifies the four process areas most crucial to doing so—and shows executives and managers how to optimize each of them. Creveling introduces a Six Sigma-enabled workflow that encompasses strategic product/technology portfolio definition and development, research and technology development (R&T&D), tactical design engineering processes for commercialization, and operational production and service support. He presents tools, methods, and best practices for selecting the right projects, prioritizing them, and executing them rapidly, consistently, and successfully. Integrate all key technical processes so they work together in harmony Create Phase/Gate control plans for delivering products with minimal risk Establish scorecards for risk management in technical processes Use Six Sigma tools, such as Monte Carlo and FMEA, to improve project management Bring discipline to your product and technology portfolio renewal processes Systematically optimize your commercialization processes Define stripped-down “Fast Track” processes for commercializing high-risk, high-reward opportunities Provide effective operational support after you launch your product Preview the future of “lean” and Six Sigma in technical processes Use lean techniques to streamline repeatable processes such as R&D, product design, and post-launch production engineering support Learn how to manage the risk of doing a fast track commercialization project when you really must cut corners to get a product out into the market before your opportunity evaporates Foreword by John Boselli xvii Preface xv About the Author xxi Chapter 1: Introduction to Six Sigma for Technical Processes 1 Chapter 2: Scorecards for Risk Management in Technical Processes 21 Chapter 3: Project Management in Technical Processes 35 Chapter 4: Strategic Product and Technology Portfolio Renewal Process 51 Chapter 5: Strategic Research and Technology Development Process 95 Chapter 6: Tactical Product Commercialization Process 163 Chapter 7: Fast Track Commercialization 275 Chapter 8: Operational Post-Launch Engineering
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Lean TRIZ

Design for Lean Six Sigmas the only book that employs a "road-map" approach to DFSS, which allows corporate management to understand where they are in the process and to integrate DFSS methodology more fully into their overall business strategy. This is a similar approach to that used by Forrest Breyfogle in his successful book: "Implementing Six Sigma, 2E". This approach will allow corporate management to understand where they are in the process and to integrate DFSS methodology more fully into the overall business strategy. Another important aspect of this book is its coverage of DFSS implementation in a broad range of industries including service and manufacturing, plus the use of actual cases throughout.

Lean and Digitize

A quick introduction on how to use Lean Six Sigma to improve your workplace, meet your goals, and better serve your customers. Lean Six Sigma combines the two most important improvement trends of our time: making work better (using Six Sigma) and making work faster (using Lean principles). In this plain-English guide, you’ll discover how this remarkable quality improvement method can give you the tools to identify and eliminate waste and quality problems in your own work area. Packed with diagrams, cartoons, and real-life examples, What is Lean Six Sigma? reveals the “four keys” of Lean Six Sigma and how they apply to your own job: Delight your customers with speed and quality Improve your processes Work together for maximum gain Base decisions on data and facts You’ll see the big picture of what your company hopes to gain with Lean Six Sigma, how it may affect your work area, and what it can mean to you personally.

The Lean Six Sigma Guide to Doing More With Less

Although most agree that Lean Six Sigma is here to stay, they also agree that learning how to sustain the results seems problematic at best and unattainable at worst. Reverting to the old way of doing things is inevitable if sustainability measures are not a part of the methodology. Currently there are no standard resource on how to be sustainable or on using statistical techniques and practices. Until now.

Sustainability: Utilizing Lean Six Sigma Techniques not only examines how to use particular lean six sigma tools, but how to sustain results that make companies profitable with continuous improvement. The book demonstrates how to use the Six Sigma methodology to make process-focused decisions that will achieve the goals of sustainability and allow organizations to gain true benefits from process improvements. It covers sustainability and metrics, Lean manufacturing, Six Sigma tools, sustainability project management, sustainability modeling, sustainable manufacturing and operations, decision making, and sustainability logistics. These tools help sustain results while keeping organizations competitive regardless of economic conditions. While continuous improvement techniques look good on paper, the implementation of the techniques can become difficult and challenging to maintain. Without utilizing Lean Six Sigma tools and leading the change, companies will become less and less marketable and profitable. This book supplies a blueprint on achieving sustainable results from high-quality improvements and making organizations competitive and first in class in their marketplace.

Insourcing Innovation

Lean TRIZ is a new workshop-based process that brings together teams to focus on specific processes, evolutionary product designs, and improvement opportunities. It combines the insight of TRIZ with the simplicity of Value Engineering, EXPRESS, or FAST methodologies. TRIZ is the most advanced problem solving tool available. By combining TRIZ’s simplest concepts with those in the EXPRESS methodology (used by Ford and Ernst & Young), it is feasible to apply this new methodology to new concepts that are not traditionally applicable to the TRIZ methodology. This combination is guaranteed to greatly improve the quality and breakthrough results of a team that works on the problem within two days.

Six Sigma for Marketing Processes

Organisational changes/improvements and or Lean Six Sigma has become more popular in workplaces in recent years. It is crucial to understand the theories; however, it is fatal to the success of a project if we fail to get to the heart of how and what is required to implement sustainable changes within an organization. This book offers focused, practical examples on how to maximize the value that Lean Six Sigma could bring to an organization, and shows how to deal with the greatest challenges to implementing change successfully. This book provides insight into: Balancing short term results with achieving long term sustainable change; Incorporating critical thinking into Lean Six Sigma to spur innovation; New ways of implementing change management within Lean Six Sigma and organizational transformation; Using a Lean Six Sigma Scorecard to maximize strategy execution within organizational projects And much more!!!

The Ten Commandments of Lean Six Sigma

Companies from startups to corporate giants face massive amounts of disruption today. Now more than ever, organizations need nimble and responsive leaders who know how to exploit the opportunities that change brings. In this insightful book, Jean Dahl, a senior executive and expert in the Lean mindset and its methods, demonstrates why you need to embrace Modern Lean principles and thinking to redefine leadership in this age of digital disruption in order to continuously evolve the Lean enterprise. Drawing on nearly three decades of corporate and consulting experience, Ms. Dahl lays out a new holistic framework for
developing Modern Lean leaders. Through personal experiences and compelling real-world case studies, she explains specific steps necessary for you and your company to proactively understand and respond to change. Understand the leadership challenges Lean leaders face in our 21st century global economy. Explore the six dimensions of the Modern Lean Framework™ and apply the nine steps necessary to become a Lean leader. Use Modern Lean methods to build a culture of continuous learning that can be sustained and maintained within your organization. Seize competitive advantage by embracing Modern Lean to build an enterprise that understands how to respond to disruption.

**Lean Six Sigma for Hospitals: Simple Steps to Fast, Affordable, and Flawless Healthcare**

In today’s fast-moving, high-technology environment, the focus on quality has given way to a focus on innovation. From presidents of the United States to presidents of Fortune 500 companies, it is clear that everyone thinks innovation is extremely important. The challenge is that few people stop to define why innovation is important—to understand what’s driving the need for more innovation. We all agree that more frequent innovation is important, even necessary. What remains unanswered is why we allow innovation consultants, elected officials, and business leaders to tell us innovation is important, but not demonstrate the underlying reasons why. The three volumes of The Innovation Tools Handbook cover 76 top-rated tools and methods, from the hundreds available, that every innovator must master to be successful. Volume I covers 24 creative tools/methodologies most frequently used to change an organization’s structure and operations. It provides a clear understanding of how all 24 tools are used and the type or results they can generate, so you can learn to select the right combination of tools that best meet your organization’s needs. This book is the result of a research study that defined the most efficient, effective, and frequently used tools in the innovative process. For each tool described, it provides a definition, identifies the user of the tool or methodology, explains what phases of the innovative process the tool is used, describes how the tool is used, supplies examples of the outputs from the tool, identifies software that can help you maximize the effectiveness of the tool, and includes references and suggestions for further reading. Tools and methodologies covered include: Agile innovation, benchmarking, business case development, business plans, comparative analysis, competitive analysis, contingency planning, costs analysis, financial reporting, focus groups, identifying and engaging stakeholders, innovation master plan, knowledge management systems, market research and surveys, organizational change management, potential investor presentation, project management, S-curve model, safeguarding intellectual properties, systems thinking, value propositioning, and visioning.

**Six Sigma for Technical Processes**

In 2005, Goodyear’s research and development (R&D) engine was not performing up to its full potential. The R&D organization developed high-quality tires, but the projects were not always successful. Goodyear embarked on a major initiative to transform its innovation creation processes by learning, understanding, and applying lean product development principles. Within five years, Goodyear saw its product development cycle times slashed by 70 percent, on-time delivery performance rise close to 100 percent, and throughput improve three-fold— all achieved with no increase in the R&D budget. Lean-Driven Innovation: Powering Product Development at The Goodyear Tire & Rubber Company describes in great detail how the Goodyear team was able to achieve such significant improvements. Revealing the ups and downs of this successful transformation, the book shares experiences of how this seismic change was managed, how people were engaged, and how Goodyear dramatically reinvigorated its product development and innovation processes—and, in the process, delivered substantial more value to customers and to the company. The book also explains how lean product development helped Goodyear dramatically improve revenue by having every new product available when the market needed it. Presenting wide-ranging perspectives from all levels of leadership, this book is ideal for anyone in R&D daring to take on a lean initiative in R&D or who is struggling with a lean transformation that is not delivering to its full potential. Since the book focuses on universal lean principles, it is as insightful to other manufacturing and nonmanufacturing disciplines in any industry as well. The book presents invaluable insights gained by the author during his 36 years within Goodyear, of which 10 have been directly involved in trying to develop, implement, and sustain lean to achieve the company’s business objectives. It distills ideas, practices, failures, and successes into key principles that lean product development practitioners can easily implement. After reading this book, you will gain a practical path for applying lean to the innovation processes of your organization, including where to begin and what to do, regardless of the industry and the status of your transformation. Watch Norbert Majerus discuss Lean-Driven Innovation at: https://youtu.be/y1UJEMJicyA

**The Big Book of Six Sigma Training Games: Proven Ways to Teach Basic DMAIC Principles and Quality Improvement Tools**

Nearly half of the top one hundred Fortune 500 companies use Six Sigma methodology in some part of their business. These companies have been among the top one hundred for five or more years and consistently report higher revenue and significantly higher profits than competitors. This underscores the impact on the cost side. Now the focus moves to revenue growth. Six Sigma consultant Clyde M. Creveling’s Design for Six Sigma in Technology and Product Development is the standard guide for product commercialization and manufacturing support engineers who want to apply Six Sigma methodology to technology development and product commercialization. Now, in Six Sigma for Marketing Processes, Creveling joins with Lynne Hambleton and Burke McCarthy to show the ways marketing professionals can adapt and apply those same Six Sigma concepts to create a lean marketing workflow built for growth. This book provides an overview of the way marketing professionals can utilize the value offered by Six Sigma tools, methods, and best practices, within their existing phase-gate processes, as well as the traditional Six Sigma problem-solving methods, and the importance of leadership in Six Sigma projects. The book covers 24 creative tools/methodologies most frequently used to change an organization’s structure and operations. It provides a clear understanding of how all 24 tools are used and the type or results they can generate, so you can learn to select the right combination of tools that best meet your organization’s needs. This book is the result of a research study that defined the most efficient, effective, and frequently used tools in the innovative process. For each tool described, it provides a definition, identifies the user of the tool or methodology, explains what phases of the innovative process the tool is used, describes how the tool is used, supplies examples of the outputs from the tool, identifies software that can help you maximize the effectiveness of the tool, and includes references and suggestions for further reading. Tools and methodologies covered include: Agile innovation, benchmarking, business case development, business plans, comparative analysis, competitive analysis, contingency planning, costs analysis, financial reporting, focus groups, identifying and engaging stakeholders, innovation master plan, knowledge management systems, market research and surveys, organizational change management, potential investor presentation, project management, S-curve model, safeguarding intellectual properties, systems thinking, value propositioning, and visioning.
Accelerated Product Development

With the growing business 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 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 Brenig-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.

The Lean Six Sigma Black Belt Handbook

Design for Six Sigma (DFSS) is an innovative continuous improvement methodology for designing new products, processes, and services by integrating Lean and Six Sigma principles. This book will explain how the DFSS methodology is used to design robust products, processes, or services right the first time by using the voice of the customer to meet Six Sigma performance. Robust designs are insensitive to variation and provide consistent performance in the hands of the customer. DFSS is used to meet customer needs by understanding their requirements, considering current process capability, identifying and reducing gaps, and verifying predictions to develop a robust design. This book offers: Methodology on how to apply Six Sigma methodology to develop a lean, efficient marketing workflow designed for growth. Enhance the three marketing arenas for growth: strategic, tactical, and operational. Identify leading indicators of growth and become proactive about performance improvement. Strengthen links between customers, products, and profitability. Redesign marketing work to streamline workflow and reduce variability. Assess and mitigate cycle-time risk in any marketing initiative or project. Leverage DMAIC to solve specific problems and improve existing processes. Use lean techniques to streamline repeatable processes, such as collateral development and trade-show participation. Participate in preconference participation. Acknowledgments xxiii About the Authors xxv Chapter 1: Introduction to Six Sigma for Marketing Processes 1 Chapter 2: Measuring Marketing Performance and Risk Accurately Using Scorecards 25 Chapter 3: Six Sigma-Enabled Project Management in Marketing Processes 45 Chapter 4: Six Sigma in the Strategic Marketing Process 63 Chapter 5: Six Sigma in the Tactical Marketing Process 117 Chapter 6: Six Sigma in the Operational Marketing Process 173 Chapter 7: Quick Review of Traditional DMAIC 209 Chapter 8: Future Trends in Six Sigma and Marketing Processes 229 Glossary 235 Index 261

Driving Operational Innovation Using Lean Six Sigma

Innovation is central to business success, yet no other aspect of business is as frustrating and out of control. Instead of occurring in fits and starts and strokes of genius, innovation needs to become an all-the-time event that’s measurable, reliable, predictable, streamlined, and effective. Asserting that every innovation objective has a finite set of possible solutions given its unique constraints, TRIZ, the Theory of Inventive Problem Solving, is a structured system for making innovation more manageable and profitable. Divided into five parts, Insourcing Innovation: How to Achieve Competitive Excellence Using TRIZ demonstrates how the application of a consistent, systematic approach will render innovative problem solving a dependable reality rather than an enigmatic phenomenon. Part I provides a framework for thinking about business excellence and the case for why TRIZ is a world-class approach for achieving perpetual innovation with existing resources. Part II covers the tactical aspects of TRIZ, with a central focus on the TRIZ methodology (DMAISI) and its primary constructs, techniques, and components. Part III provides implementation case examples, including an in-depth breakdown of how TRIZ was used to create a self-heating beverage container. This part also summarizes how TRIZ was applied to innovative parts of the International Space Station, the Cassini Saturn orbiter, and even hospital triage. Part IV transitions from the tactical aspects of TRIZ to its strategic aspects, which show you that no single innovation stands alone. All tap into one or more of eight evolutionary forces to become what they are. This part describes these forces with related examples. Part V discusses how structured innovation is part of the larger system of “total performance excellence.” Highlighting their interdependence, it shows how key aspects of business excellence enable structured innovation, and at the same time are enabled by structured innovation.

Managing Innovation and Operations in the 21st Century

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"This book presents emerging research-based trends in the area of global quality lean six sigma networks and analysis through an interdisciplinary approach focusing on research, cases, and emerging technologies"--Provided by publisher.