Lean Manufacturing Implementation Design Of Manufacturing Plant Design

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Applied Lean Business Transformation

Six Sigma

Lean Production for the Small Company

Improving Production with Lean Thinking

Lean Manufacturing

This bestselling how-to manual outlines the progressive steps to factory transformation to Lean without the aid of a consultant. It provides a toolbox of techniques for problem-solving, continuous involvement, and for operating a Lean manufacturing facility on a day-to-day basis after the initial line design is completed.

Six Sigma

This book provides a short, concise overview of lean work design, which sees lean systems as the result of a systematic implementation of appropriate work processes. It discusses lean tools, but views tools only as a means of achieving a desirable work design and does not see the use of lean tools as a goal in themselves.

Lean Production for the Small Company

Improving Production with Lean Thinking

Design for Lean Six Sigma is 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 Manufacturing

Many books explain how to construct a value stream map, but few explain the process conditions and characteristics required to ensure a value stream map can be completed successfully. Lean Execution: The Basic Implementation Guide for Maximizing Process Performance fills this need.
Although the book explains Lean methods and tools that maximize process performance, its main focus is on providing readers with detailed guidelines, process conditions, and helpful tips for ensuring successful implementation. Based on Clifford Fiore’s insights and experiences gained through years of firsthand application and implementation of Lean methods, the book supplies easy-to-understand explanations of proven Lean tools, methods, and concepts. For example, the concept of flow/theory of constraints is reviewed using a garden hose analogy. The text introduces material in a manner that mirrors the natural sequence for general implementation. It provides simple calculations, worksheets, and examples to reinforce the key concepts involved with determining production rates and process variation. In addition to explaining how to apply Lean tools correctly, the book provides the big picture perspective required to select and apply the appropriate Lean tool at the right time, while gaining helpful insight about the process under review. Sharing valuable lessons learned by trial and error, the book can help practitioners save valuable time and resources by not repeating similar mistakes. The book concludes with a summary that outlines a blueprint for maximizing success during implementation. Clifford Fiore has spent more than 30 years at a Fortune 500 company and is a recognized leader in applying Lean and Six Sigma methodologies. He is also a certified black belt and Lean expert. Through his work in adapting process improvement techniques in engineering, manufacturing, and the supply chain, he has emerged as an industry leader in implementing concepts towards reducing product cost, quality defects, and development cycle times.

MANUFACTURING PROCESSES 4-5. (PRODUCT ID 23994334).

In the new millennium the increasing expectation of customers and products complexity has forced companies to find new solutions and better alternatives to improve the quality of their products. Lean and Six Sigma methodology provides the best solutions to many problems and can be used as an accelerator in industry, business and even health care sectors. Due to its flexible nature, the Lean and Six Sigma methodology was rapidly adopted by many top and even small companies. This book provides the necessary guidance for selecting, performing and evaluating various procedures of Lean and Six Sigma. In the book you will find personal experiences in the field of Lean and Six Sigma projects in business, industry and health sectors.

Implementing Lean Six Sigma in 30 Days


This is the first book to completely cover the whole body of knowledge of Six Sigma and Design for Six Sigma with Simulation Methods as outlined by the American Society for Quality. Both simulation and contemporary Six Sigma methods are explained in detail with practical examples that help understanding of the key features of the design methods. The systems approach to designing products and services as well as problem solving is integrated into the methods discussed.

Advances in Design for Inclusion

Design for Manufacturability: How to Use Concurrent Engineering to Rapidly Develop Low-Cost, High-Quality Products for Lean Production shows how to use concurrent engineering teams to design products for all aspects of manufacturing with the lowest cost, the highest quality, and the quickest time to stable production. Extending the concepts of design for manufacturability to an advanced product development model, the book explains how to simultaneously make major improvements in all these product development goals, while enabling effective implementation of Lean Production and quality programs. Illustrating how to make the most of lessons learned from previous projects, the book proposes numerous improvements to current product development practices, education, and management. It outlines effective procedures to standardize parts and materials, save time and money with off-the-shelf parts, and implement a standardization program. It also spells out how to work with the purchasing department early on to select parts and materials that maximize quality and availability while minimizing part lead-times and ensuring desired functionality. Describes how to design families of products for Lean Production, build-to-order, and mass customization Emphasizes the importance of quantifying all product and overhead
costs and then provides easy ways to quantify total cost Details dozens of design guidelines for product design, including assembly, fastening, test, repair, and maintenance Presents numerous design guidelines for designing parts for manufacturability Shows how to design in quality and reliability with many quality guidelines and sections on mistake-proofing (poka-yoke) Describing how to design parts for optimal manufacturability and compatibility with factory processes, the book provides a big picture perspective that emphasizes designing for the lowest total cost and time to stable production. After reading this book you will understand how to reduce total costs, ramp up quickly to volume production without delays or extra cost, and be able to scale up production rapidly so as not to limit growth.

Perfection - 10 Secrets to Successful Lean Manufacturing Implementation

From start to finish, this book follows a comprehensive case study of a team as they implement a Lean Six Sigma project. This in-depth case study considers the data and explains how the team drew their conclusions. The accompanying CD includes the data covered in the case study so readers can perform their own analyses. Using more than 100 illustrative figures and tables, the text demonstrates the links between all of the Lean Six Sigma tools.

Intelligent Manufacturing and Mechatronics

This book presents the proceedings of SympoSIMM 2019, the 2nd edition of the Symposium on Intelligent Manufacturing and Mechatronics. Focusing on "Strengthening Innovations Towards Industry 4.0", the book presents studies on the details of Industry 4.0’s current trends. Divided into five parts covering various areas of manufacturing engineering and mechatronics stream, namely, artificial intelligence, instrumentation and controls, intelligent manufacturing, modelling and simulation, and robotics., the book is a valuable resource for readers wishing to embrace the new era of Industry 4.0.

Process Implementation Through 5S

This book addresses a range of topics in design, such as universal design; design for all; digital inclusion; universal usability; and accessibility of technologies regardless of users’ age, financial situation, education, geographic location, culture and language. It especially focuses on accessibility for people with auditory, cognitive, neurological, and visual impairments, ageing populations, and mobility for those with special physical needs. The book explores some of the overlaps between inclusive design and web accessibility to help managers, designers, developers, policy makers, and researchers optimize their efforts in these areas. Based on the AHFE 2019 International Conference on Design for Inclusion, held on July 24-28, held in Washington D.C., USA, it discusses new design technologies and highlights the disparate needs of the individuals within a community. Thanks to its multidisciplinary approach, it provides readers with various backgrounds with a timely, practice-oriented guide to design for inclusion.

The Role of Sociocultural Factors in a Lean Manufacturing Implementation

"This book explores the recent advancements in the areas of lean production, management, and the system and layout design for manufacturing environments, capturing the building blocks of lean transformation on a shop floor level"

Lean Manufacturing and Six Sigma

The Lean Manufacturing Implementation Guide is a "how to" book that describes and documents the proven steps necessary to complete a successful lean transformation in a manufacturing facility. It reduces the manufacturer's fear of change by providing proven, objective and standard how to methods that are understandable and can be easily applied. The book is designed for manufacturing and engineering management personnel.

Lean Design Management

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 "leaness" 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

The Design of a High Volume Manufacturing Line Using a Strategic Management Approach

Design for Manufacturability

Learning to See

The fields of design management and lean construction appear to be developing independently. This volume brings together authors from four continents to argue that lean thinking should be integral to design management in the fields of architecture, engineering and construction (AEC). The publication brings together a variety of perspectives on lean design management as experienced in Africa, South America, Australasia and Europe. Themes covered include: lean thinking and flexible building solutions quality and flow of information in fourteen sub-projects of a major airport project Ghanaian consultants' perspective on process waste target costing and its application to social housing projects in Brazil concept of 'first' and 'last' value, drawing on social housing projects in Chile development of a lean design management model specifically for remote sites. The papers offer a mix of theoretical materials and empirical research findings, providing a unique insight into aspects of lean design management. This book was published as a special issue of Architectural Engineering and Design Management.

Lean Manufacturing

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

Lean Manufacturing In Pharmaceutical Industry

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,
Lean Manufacturing Implementation

This research investigated the role of management support, organizational culture, and organizational structure in a lean implementation. The impact the lean implementation made on communication and employee problem resolution skills within the organization was also examined. A qualitative case study methodology was used to investigate the research questions. The case study was performed at an electronics manufacturer in the northwestern United States. Data was collected over a three month time period. The data was coded employing an evolving coding scheme. The coding allowed the data to be organized into manageable units for analysis purposes. Significant findings were found for each of the research variables of interest. Due to the design of the research, the results of the case study are not broadly generalizable, but they do provide strong justification for further research. Additional research at organizations of differing sizes in a variety of industries would strengthen the findings and allow for wider generalizations to occur. Evidence of the positive impact of culture on the lean implementation was found, but ingrained cultural assumptions were also found to have a negative effect on the adoption of lean practices. No evidence was found of organizational structure making a positive impact on the lean implementation. Instead, the lack of support staff and minimal structure seemed to inhibit a persistent adoption of lean practices. Evidence was found to indicate that management support made a positive impact on the lean implementation, but a lack of communication about the lean effort and minimal material support by the executive management team was also found. Some evidence of improved communications attributable to the lean implementation was found, but the majority of the evidence involved examples of poor communication between work areas. Evidence of the lean implementation making a positive impact on employee problem resolution skills was also found, though difficulties still existed when seeking root causes to problems. Though this research explored five very different propositions related to lean manufacturing, the implications from the propositions often shared similarities. In particular, this research underscored the need to involve the entire organization in the implementation, educate the employees thoroughly, and create a work group that can effectively manage the lean effort.

Lean Six Sigma: Research and Practice

For students this book helps out to move beyond authoritarian system, get transformed into responsible, independent, participative learners and critical thinkers thereby provoke change in attitudes by incorporating spirit of activism having confidence to apply learned skills in work-job function. For practitioners, the issue of implementing the factory is as critical as designing the factory. Factory design for diffusion of new technologies in Lean manufacturing, extend help for the adoption of lean manufacturing in Indian industries. Explored relationships between factory design and lean manufacturing through two tools, axiomatic design and a queuing model. Drawn explicit understanding of factory design and lean manufacturing and make it explicit. Axiomatic design helped exploring essence of a lean factory, Features: independent departments through buffers and management structures, Decentralized support activities for problem solving and continuous improvement activities, Modular and scalable factory features that allow ease in continuous improvement in factory layout.
Machine that Changed the World

This book presents some definitions and concepts applied in Latin America on lean manufacturing (LM), the LM tools most widely used and human and cultural aspects that most matter in this field. The book contains a total of 14 tools used and reported by authors from different countries in Latin America, with definition, timeline with related research, benefits that have been reported in literature and case studies implemented in Latin American companies. Finally, the book presents a list of softwares available to facilitate the tools' implementation, monitoring and improvement.

Lean Manufacturing in the Developing World

PERFECTION begins with the simple belief that perfection is achievable and well within our reach. Creating a destiny, that values the creation of perfection begins during our first heart beat. We soon breathe on our own and the journey to perfection become a race. A race that builds momentum until our journey finds us entering eternal life. Perfection begins with our spirit being renewed back into the image of God. Soon the perfection of our work becomes the most sought after value that we desire in our work place. Achieving perfection in our work life has many common sense Lean Thinking tools available to ensure success. To guide our work lives to Perfection I developed the '10 Secrets to Successful Lean Manufacturing Implementation. By Pietro Savo - Edited by P.B. Gorman - Cover Design and Interior Design by Rhiannon Dziemien

Implementing Lean Six Sigma throughout the Supply Chain

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 Design and Implementation of a Lean Manufacturing System at an Aerospace Repair and Overhaul Facility

The paradigm of manufacturing is undergoing a major evolution throughout the world. The use of computers, the Internet and new challenges related to the Industry 4.0 have changed the way we engineer and manufacture products. Improving production with Lean Thinking is an evolution of a traditional approach in order to improve its processes to remain competitive in the global market. Lean Manufacturing is a multidimensional approach that embraces a wide variety of management practices in a unified system. These practices contain, quality systems, team work, and supplier management, among others. Nowadays, other practices have been adopted such as human factors and ergonomics. This book presents contributions of Lean Manufacturing applications in the world development and is intended to provide a comprehensive view of issues related to this area, with a specific focus on lean engineering principles; it is full of practical production examples of how Lean Thinking can be applied effectively to production systems. This work was conceptualized for an audience of graduate students mainly; however, it can also be consulted by engineers and company managers who seek state-of-the-art applications on Lean Manufacturing within a wide diversity of scenarios and conditions. The book, organized into 17 chapters, is intended to be an excellent source for dissemination of applied researches, lean concepts, and practices that have been successfully applied in the developing world domain. The book is also an excellent example of academy purpose with collaboration between different institutions from different countries that provide a global approach. Maria João Viamonte, PhD ISEP's President

Lean Execution

This volume presents a holistic business improvement strategy that targets the right resources and implementation methodologies to the right opportunities that many firms are missing. It shows how to integrate kaizen, lean and six sigma into an improvement initiative across the entire company.

Lean Manufacturing Systems and Cell Design
An Introduction to Lean Work Design

Production and manufacturing management since the 1980s has absorbed in rapid succession several new production management concepts: manufacturing strategy, focused factory, just-in-time manufacturing, concurrent engineering, total quality management, supply chain management, flexible manufacturing systems, lean production, mass customization, and more. With the increasing globalization of manufacturing, the field will continue to expand. This encyclopedia's audience includes anyone concerned with manufacturing techniques, methods, and manufacturing decisions.

Encyclopedia of Production and Manufacturing Management

Although initially utilized in business and industrial environments, quality management systems can be adapted into higher education to assess and improve an institution's standards. These strategies are now playing a vital role in educational areas such as teaching, learning, and institutional-level practices. However, quality management tools and models must be adapted to fit with the culture of higher education. Quality Management Implementation in Higher Education: Practices, Models, and Case Studies is a pivotal reference source that explores the challenges and solutions of designing quality management models in the current educational culture. Featuring research on topics such as Lean Six Sigma, distance education, and student supervision, this book is ideally designed for school board members, administrators, deans, policymakers, stakeholders, professors, graduate students, education professionals, and researchers seeking current research on the applications and success factors of quality management systems in various facets of higher education.

Kanban Just-in Time at Toyota

This book is for anyone motivated and driven by the desire to create improvements within their team or wider business.

How To Implement Lean Manufacturing

What are the expected Design for lean manufacturing results? How can you reduce the costs of obtaining inputs? What system do you use for gathering Design for lean manufacturing information? What is the estimated value of the project? What sources do you use to gather information for a Design for lean manufacturing study? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role in EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc - they are the people who rule the future. They are the person who asks the right questions to make Design For Lean Manufacturing investments work better. This Design For Lean Manufacturing All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Design For Lean Manufacturing Self-Assessment. Featuring 960 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Design For Lean Manufacturing improvements can be made. In using the questions you will be better able to: - diagnose Design For Lean Manufacturing projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Design For Lean Manufacturing and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Design For Lean Manufacturing Scorecard, you will develop a clear picture of which Design For Lean Manufacturing areas need attention. Your purchase includes access details to the Design For Lean Manufacturing self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and
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Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Design For Lean Manufacturing Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

Lean Manufacturing Implementation Guide

Toyota's world-renowned success proves that just-in-time (JIT) makes other manufacturing practices obsolete. This simple but powerful book is based on the seminars given by Taiichi Ohno and other senior production staff to introduce Toyota's own supplier companies to JIT. It teaches the philosophy and implementation of what many call the most efficient production system in the world. Provides a clear structure for an introductory JIT training program. Explains every aspect of the JIT system, including how to set it up and how to refine it once it's in place. Shows how to use a simple visual system to control the production process. Every day more American companies are learning that JIT works outside Japan. Now you can get started with this step-by-step book which guides you through the implementation process. Every engineer, manager, supervisor, and worker should read this book to get the clearest, simplest, and most complete introduction to JIT available in English. Results at American companies after reading this book: Lead-time on one product was reduced from 12 weeks to 4 days. Setup time on a large blanking press was reduced from eight hours to one minute and four seconds. Work-in-process has been reduced 50 percent plant-wide. Factory floor space was opened up 30 to 40 percent in every on of their plants.

Lean Thinking

Value-stream maps are the blueprints for lean transformations and Learning to See is an easy-to-read, step-by-step instruction manual that teaches this valuable tool to anyone, regardless of his or her background. This groundbreaking workbook, which has introduced the value-stream mapping tool to thousands of people around the world, breaks down the important concepts of value-stream mapping into an easily grasped format. The workbook, a Shingo Research Prize recipient in 1999, is filled with actual maps, as well as engaging diagrams and illustrations. The value-stream map is a paper-and-pencil representation of every process in the material and information flow, along with key data. It differs significantly from tools such as process mapping or layout diagrams because it includes information flow as well as material flow. Value-stream mapping is an overarching tool that gives managers and executives a picture of the entire production process, both value and non value-creating activities. Rather than taking a haphazard approach to lean implementation, value-stream mapping establishes a direction for the company. To encourage you to become actively involved in the learning process, Learning to See contains a case study based on a fictional company, Acme Stamping. You begin by mapping the current state of the value stream, looking for all the sources of waste. After identifying the waste, you draw a map of a leaner future state and a value-stream plan to guide implementation and review progress regularly. Written by two experts with practical experience, Mike Rother and John Shook, the workbook makes complicated concepts simple. It teaches you the reasons for introducing a mapping program and how it fits into a lean conversion. With this easy-to-use product, a company gets the tool it needs to understand and use value-stream mapping so it can eliminate waste in production processes. Start your lean transformation or accelerate your existing effort with value-stream mapping. [Source : 4e de couv.].

Job Shop Lean

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.

Quality Management Implementation in Higher Education: Practices, Models, and Case Studies

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.

Handbook of Research on Design and Management of Lean Production Systems

Simulation-based Lean Six-Sigma and Design for Six-Sigma

Examines Japan's innovative, highly successful production methods

Design for Lean Six Sigma

Unique coverage of manufacturing management techniques--completenewith cases and real-world examples. Improving Production with Lean Thinking picks up where other references on production processes leave off. It is increasinglyimportant 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.

Lean Manufacturing Implementation

Process Implementation Through 5S: Laying the Foundation for Lean explains how to implement standardized work and visual controls through Plan-Do-Check-Adjust (PDCA). The author uses
PDCA to outline the book and explains how 5S (Sort, Straighten, Shine, Standardize, and Sustain) and Standardization are not only foundational parts of the PDCA for your Lean transformation, but are actually PDCA processes within themselves. The book provides a road map to implement new processes. In addition, it shows how this same implementation process can be used to shore up existing processes and improve upon them. Once you walk through this process with your team, you not only will have laid the foundation for Lean in your organization, but will have laid the foundation for PDCA and for building an army of problem solvers. This transformation is what ultimately will add value to your customer base and drive the business results you are looking for. These Lean tools are not an end to a means, but rather a means to an end. The purpose is not to implement these tools, check off the box, and then move on to the next area. Rather, they are tools designed to engage your team and help your team see problems, which you then can solve. This is the continuous improvement culture most organizations and Lean leaders seek.