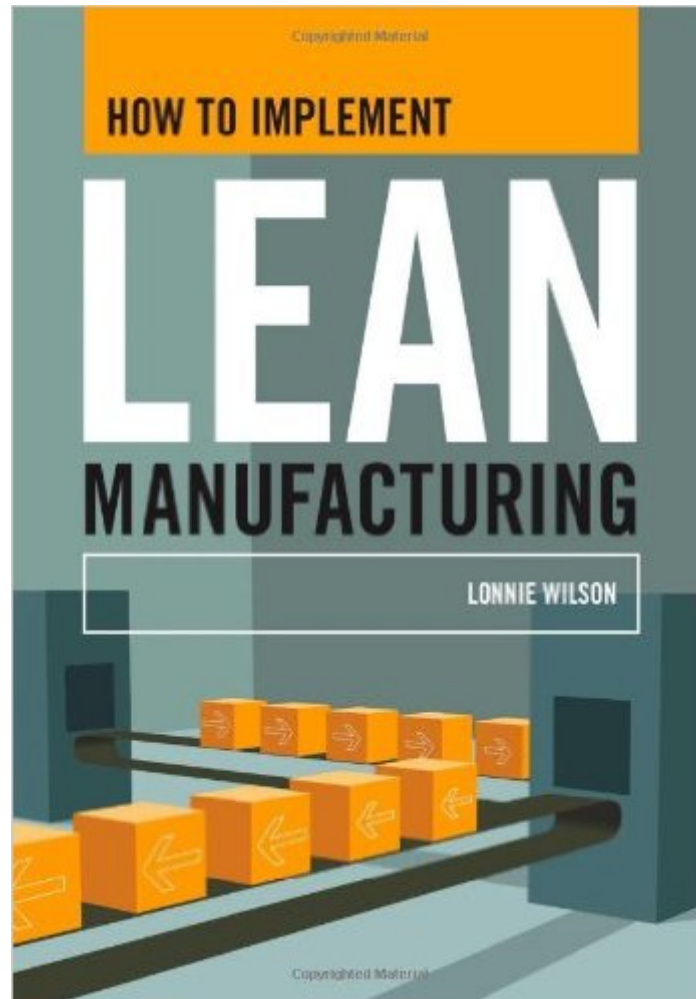


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# How To Implement Lean Manufacturing



## Synopsis

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

## Book Information

Hardcover: 336 pages

Publisher: McGraw-Hill Professional; 1 edition (September 1, 2009)

Language: English

ISBN-10: 0071625070

ISBN-13: 978-0071625074

Product Dimensions: 7.6 x 1 x 9.5 inches

Shipping Weight: 1.7 pounds

Average Customer Review: 4.9 out of 5 stars [See all reviews](#) (33 customer reviews)

Best Sellers Rank: #433,563 in Books (See Top 100 in Books) #23 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Management](#) #49 in [Books > Business & Money > Management & Leadership > Quality Control & Management > Lean](#) #95 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Quality Control](#)

## Customer Reviews

If you have read "LEAN THINKING" by James P Womack and Daniel T. Jones, you may have been

left wondering what Lean Manufacturing and the Toyota Production System was all about. It may have seemed mysterious and not well defined. Lonnie Wilson's "HOW TO IMPLEMENT LEAN MANUFACTURING" is a guidebook to Lean Manufacturing that will take the mystery out of process for you. It is a practical HOW-TO guide that can be used by plant managers, executives, quality managers and production personnel to implement the Lean Systems within their facilities. This book not only addresses the strategy on how to implement Lean Manufacturing but also addresses cultural change necessary for a successful transformation. In the end you have to sustain the gain and the book tells you what is necessary. What makes this book stand out from other Lean texts is that the book itself is written in a Lean style of writing. Lonnie uses "Points of Clarity" to highlight important concepts within the book. Additionally he uses hundreds of visual graphics and tables that draw the reader's attention. Visual clues and organization is a key concept in Lean. I don't think you can turn two or more pages without being grabbed by a new visual to help make a point in the book. I was impressed with the level of practical detail. Need to calculate OEE or the proper KANBAN size? Does Value Stream Mapping have you confused? The book provides the formula's necessary. It places these concepts in context to the big picture of efficiency, lead-time or cycle-time reduction. The book is filled with personal examples from Lonnie Wilson's career leading transformation efforts. Case studies are also given to drive home and follow the complete process of a successful Lean project and some that are not so successful.

Lonnie Wilson teaches you how to implement the best aspects of lean manufacturing without having to implement the cultural aspects of the Toyota Production System. He believes that cultural transformation, while a benefit if you can pull it off, keeps you from realizing the benefits of Lean quickly, is risky, and adds cost to your Lean project. Chapter 1 explains his views along these lines and Chapter 2 is a look at Toyota's System and why you need a manufacturing system that focuses on behavior more than culture. Chapter 3 shows you why variation gets in the way of your manufacturing goals and how inventory masks and is the result of variation. You want to eliminate inventory and you have to eliminate variation in order to eliminate the need for inventory. Chapter 5 shows you why Lead Time exists and how you can reduce it. Chapter 6 discusses the basics of Cultural Change and how need to start thinking about Lean and your manufacturing culture. Chapter 7 looks at strategic approaches you can take to becoming a Lean Manufacturing environment and shows you what Takt is and how to use it. You also get a look at what a basic time study is and how to conduct a balancing study. Spaghetti Diagrams and Value Stream Mapping are also discussed. Chapter 8 takes you through a Lean implementation process while chapter 9 looks at

how to do Lean planning and how to set appropriate and achievable goals. Chapter 10 shows you how to maintain the gains you worked so hard to make and chapter 11 looks at the effect of your culture on Lean and how to think about what you can do with your own. Chapters 12 and 13 deal with managing your constraints and the benefits you can realize by using cellular manufacturing.

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