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Nigel J Smart (Author)

**Lean Biomanufacturing: Creating  
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Chapter 1: An introduction to Lean biomanufacturing. Abstract: 1.1 What is Lean? 1.2 Muda, muda, muda – the seven forms of waste. 1.3 Creation of value through the application of Lean. 1.4 SIPOC analysis. 1.5 Flow charting. 1.6 Pull versus push; a change in paradigm for Lean production. 1.7 Benefits of a pull strategy. 1.8



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**Lean biomanufacturing : creating  
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1 - An introduction to Lean  
biomanufacturing. This chapter provides

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an introduction to Lean biomanufacturing, the concepts involved and why it has become so relevant to apply this type of philosophy. Basic principles are discussed and Lean tools are covered such as waste reduction, Poke Yoke, raw material control, creation of value, flow control, value stream mapping and pull strategies tools.

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Lean biomanufacturing re-visits lean  
principles and then applies them

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sympathetically - in a highly practical approach - to the specific needs of pharmaceutical processes, which present significantly different challenges to more mainstream manufacturing processes.

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→ The Lean approach begins with a detailed understanding of the value assigned to products or services by the customer. → This determines what the customer will pay. → Establishing worth allows organizations to create a top to the bottom target price. → The cost to produce the products and services is then determined.



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**Five Lean Manufacturing Principles |  
Implementation**

Mapping the value stream is the second principle of lean thinking. A value stream identifies every step necessary to create and deliver a product to the customer (Womack and Jones, 1996). The first step to understanding this is mapping

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the current state.

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Lean is a customer-centric methodology used to continuously improve any process through the elimination of waste in everything you do; it is based on the ideas of “Continuous Incremental

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Improvement” and “Respect for People.”  
Focus on the fundamentals The basic  
principles of Lean are Focus on  
effectively delivering value to your  
Customer

## **Lean For Dummies Cheat Sheet - dummies**

With the creation of Next Generation

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Biomanufacturing, significant changes are required within site operations including how Lean principles and methodologies are implemented and utilized in this ...

## **Advancing lean implementation for next generation ...**

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Lean Manufacturing Concept #1: 5S. The lean manufacturing notion of 5S has to do with maintaining a neat, organized workspace. 5S stands for sort, set in order, shine, standardize and sustain.

## **Improve Your Productivity With 3 Lean Manufacturing ...**

Chapter 1: An introduction to Lean

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biomanufacturing. Abstract: 1.1 What is Lean? 1.2 Muda, muda, muda – the seven forms of waste; 1.3 Creation of value through the application of Lean; 1.4 SIPOC analysis; 1.5 Flow charting; 1.6 Pull versus push; a change in paradigm for Lean production; 1.7 Benefits of a pull strategy; 1.8 Considering cost issues

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**Lean Biomanufacturing [Book]-  
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Lean biomanufacturing re-visits lean principles and then applies them sympathetically - in a highly practical approach - to the specific needs of pharmaceutical processes, which present significantly different challenges



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Processes.

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Author: Dr. Nigel John Smart Smart  
Pharmaceutical Consulting, USA.

Summary. The objective of this book is to re-visit lean principles and then apply them sympathetically - in a highly practical approach - to the specific needs of ...

**Lean Biomanufacturing | Smart**

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**Pharmaceutical Consulting**  
Value Stream Map: Value Stream  
Mapping is a lean manufacturing  
technique used to analyze the flow of  
materials and information currently  
required to bring a product or service to  
a consumer; at Toyota, where the  
technique originated, it is known as  
"material and information flow

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mapping," because it contains not just a depiction of processing steps, but also the information flows required to execute each step.

## **Chapter 6 Operational Excellence - Biomanufacturing**

Lean biomanufacturing re-visits lean principles and then applies them

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sympathetically - in a highly practical approach - to the specific needs of pharmaceutical processes, which present significantly different challenges to more mainstream manufacturing processes. ... Alaotsikko Creating value through innovative bioprocessing approaches ISBN ...

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**The Creative Agency on Using the  
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If you are paying accountants to do paperwork, you are not getting enough value from your team. In my 20 years of experience as a CFO, I remember using manual accounting processes and the ...

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