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Process Cycle Efficiency Improvement Through Lean: A Case Study

D. Rajenthirakumar*

Department of Mechanical Engineering,
PSG College of Technology, Coimbatore,
641 019, India
E-mail Address: rajenthirakumar@gmail.com

P.V. Mohanram

Department of Mechanical Engineering,
PSG College of Technology, Coimbatore,
641 019, India

S.G. Harikarthik

Department of Mechanical Engineering,
PSG College of Technology, Coimbatore,
641 019, India

ABSTRACT

Lean manufacturing is an applied methodology of scientific, objective techniques that cause work tasks in a process to be performed with a minimum of non-value adding activities resulting in greatly reduced wait time, queue time, move time, administrative time, and other delays. This work addresses the implementation of lean principles in a construction equipment company. The prime objective is to evolve and test several strategies to eliminate waste on the shop floor. This paper describes an application of value stream mapping (VSM). Consequently, the present and future states of value stream maps are constructed to improve the production process by identifying waste and its sources. A noticeable reduction in cycle time and increase in cycle efficiency is confirmed. The production flow was optimized thus minimizing several non-value added activities/times such as bottlenecking time, waiting time, material handling time, etc. This case study can be useful in developing a more generic approach to design lean environment.

KEYWORDS

Lean Manufacturing,
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Task time,
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* Corresponding Author

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Table of Contents Process Cycle Efficiency Improvement Through Lean A Case

1. Understanding the eBook Process Cycle Efficiency Improvement Through Lean A Case
 - The Rise of Digital Reading Process Cycle Efficiency Improvement Through Lean A Case
 - Advantages of eBooks Over Traditional Books
2. Identifying Process Cycle Efficiency Improvement Through Lean A Case
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Process Cycle Efficiency Improvement Through Lean A Case
 - User-Friendly Interface
4. Exploring eBook Recommendations from Process Cycle Efficiency Improvement Through Lean A Case
 - Personalized Recommendations
 - Process Cycle Efficiency Improvement Through Lean A Case User Reviews and Ratings
 - Process Cycle Efficiency Improvement Through Lean A Case and Bestseller Lists
5. Accessing Process Cycle Efficiency Improvement Through Lean A Case Free and Paid eBooks

- Process Cycle Efficiency Improvement Through Lean A Case Public Domain eBooks
 - Process Cycle Efficiency Improvement Through Lean A Case eBook Subscription Services
 - Process Cycle Efficiency Improvement Through Lean A Case Budget-Friendly Options
6. Navigating Process Cycle Efficiency Improvement Through Lean A Case eBook Formats
 - ePub, PDF, MOBI, and More
 - Process Cycle Efficiency Improvement Through Lean A Case Compatibility with Devices
 - Process Cycle Efficiency Improvement Through Lean A Case Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Process Cycle Efficiency Improvement Through Lean A Case
 - Highlighting and Note-Taking Process Cycle Efficiency Improvement Through Lean A Case
 - Interactive Elements Process Cycle Efficiency Improvement Through Lean A Case
 8. Staying Engaged with Process Cycle Efficiency Improvement Through Lean A Case
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Process Cycle Efficiency Improvement Through Lean A Case
 9. Balancing eBooks and Physical Books Process Cycle Efficiency Improvement Through Lean A Case
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Process Cycle Efficiency Improvement Through Lean A Case
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Process Cycle Efficiency Improvement Through Lean A Case
 - Setting Reading Goals Process Cycle Efficiency Improvement Through Lean A Case
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Process Cycle Efficiency Improvement Through Lean A Case
 - Fact-Checking eBook Content of Process Cycle Efficiency Improvement Through Lean A Case
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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