

The Impact of Production Planning On Reducing Waste in the Pharmaceutical Field

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Introduction:

Production planning is an essential factor in the success of pharmaceutical companies, as it helps organize operations and use resources efficiently.

This sector often faces the problem of waste, such as damaged raw materials, overproduction and time loss which leads to higher cost.

Therefore, companies focus on effective production planning to reduce waste, improve operational efficiency and ensure the continuous availability of medications.

This research aims to explain the role of production planning in reducing waste within the pharmaceutical field.

Research Problem:

Some pharmaceutical companies experience waste in materials and cost due to weak production planning, which negatively affects work efficiency and may lead to financial losses.

From here the question comes of how can pharmaceutical companies improve production planning to reduce the waste.

Importance of the Research:

- helps reduce costs and improve production efficiency.
- supports better organization of operations in pharmaceutical companies.
- adds academic value that can support future studies.
- contributes to minimizing waste and ensuring medicine availability.

Research Questions:

- What is production planning?
- What causes waste in pharmaceutical companies?
- How does production planning reduce waste?

. Dose production planning improves efficiency.

Research Objectives:

- . To explain production planning in the pharmaceutical field.
- . To identify causes of waste.
- . To explain how production planning reduces waste.
- . To study relationship between planning and efficiency.

Research Hypotheses:

- . There is relationship between production planning and waste reduction
- . Good production planning improves efficiency
- . Poor production planning increases waste

Research Model:



Suggested Organization:

The study can be applied at king fahad specialist hospital-Dammam in supply chains department to see how planning affects waste in materials, time and costs.

Research Methodology:

This research uses a descriptive method by collecting information from Arabic references about Production planning and waste then analyzing them.

Project Structure:

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Theoretical framework

Suggested study

Results and Recommendations

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References

References:

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- 2- Arab institute for operations management**
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- 4- The role of lean production in achieving sustainable**