2025

Module 5.2: Value Stream Mapping

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6/27/2025

Introduction to Value Stream Mapping

Value Stream Mapping is a powerful tool used in Lean methodology to visualize and analyze the flow of materials and information required to bring a product or service to the customer. By mapping out each step in a process, we can identify waste, streamline operations, and ultimately enhance efficiency.

Example Scenario: High-Protein Meal Planning Steps for Four Workdays

For this exercise, we will focus on planning meal steps for four workdays, specifically from Friday to Monday. The goal is to ensure that the steps are easy to follow and can be repeated throughout the year, even during the busy workweek.

Step 1: Creating the Value Stream Map
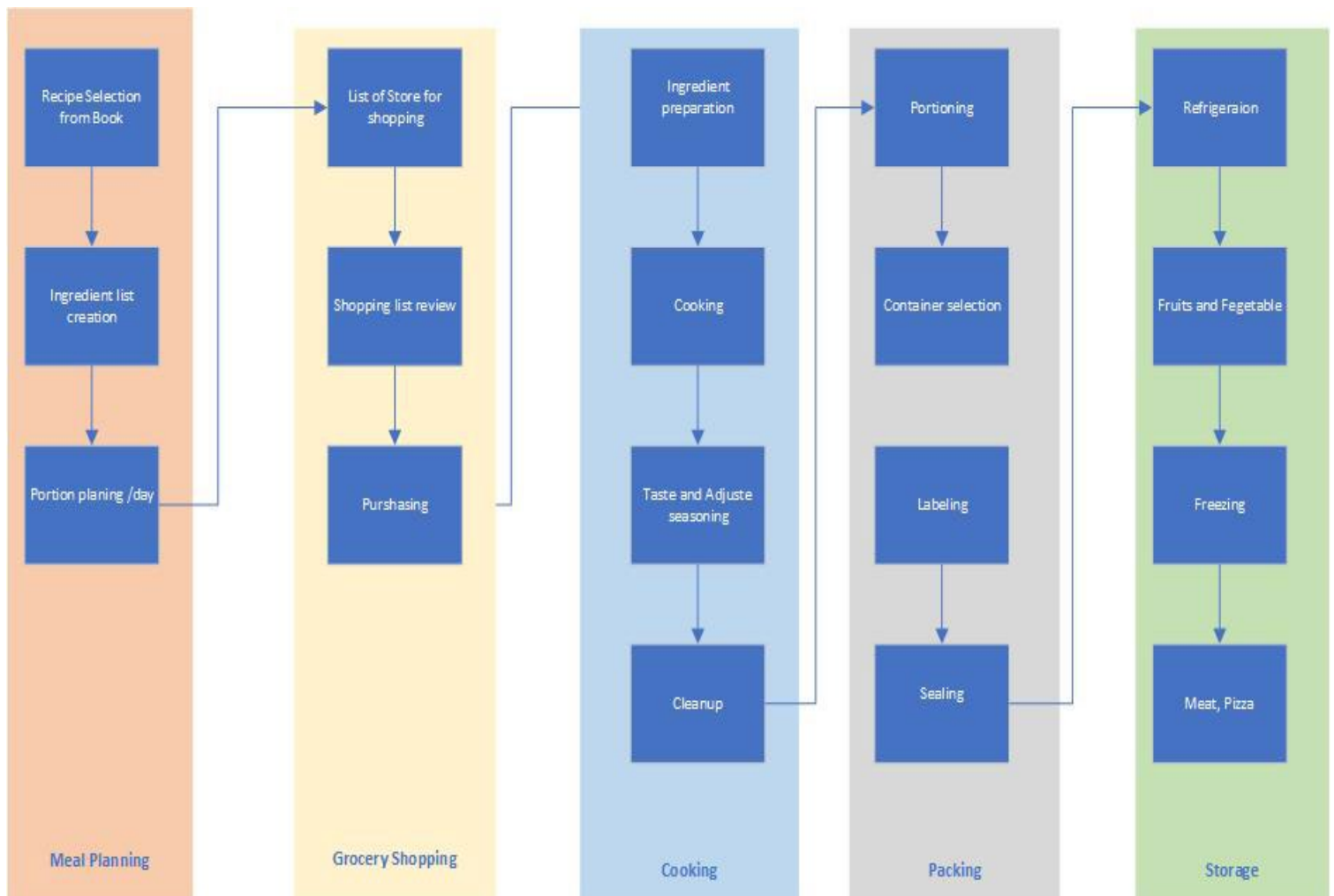
Activity	Time (mins)	Wait Time	Value Added
Plan Meals	30	0	30
Grocery Shopping	60	0	60
Meal Prep	120	0	120
Packaging	15	0	15
Refrigeration	0	60	0
Total Time	205	60	225

Step 2: Analyzing Lean Metrics

In our VSM, we can identify several key metrics that will help us analyze the efficiency of our meal preparation process:

1. **Total Time**: The total time taken for the entire process is 205 minutes, with an additional 60 minutes of wait time during refrigeration.
2. **Value-Added Time**: The total value-added time is 225 minutes, encompassing planning, shopping, meal preparation, and packaging.
3. **Non-Value Added Time**: The wait time during refrigeration is considered non-value added, as it does not contribute directly to the meal preparation process.

Step 3: Optimizing the Process

To optimize our meal preparation process, we can implement several strategies:

1. **Batch Cooking**: Instead of preparing meals individually, we can batch-cook proteins (e.g., chicken, beans) and vegetables to save time during meal preparation.
2. **Efficient Grocery Shopping**: Create a detailed shopping list organized by store layout to minimize time spent in the grocery store.
3. **Utilizing Technology**: Use meal prep apps to plan meals and generate shopping lists, which can streamline the planning process.
4. **Refrigeration Optimization**: Consider using stackable meal prep containers that are easy to access, reducing the time spent searching for meals in the refrigerator.

Conclusion

By applying Value Stream Mapping to the process of preparing high-protein meals for a workweek, we can gain valuable insights into the efficiency of our operations. Through careful analysis of lean metrics and the implementation of optimization strategies, we can significantly enhance our meal preparation process, ultimately leading to healthier eating habits and a more productive workweek.