

# Project Execution Essentials Handbook: Lean Six Sigma Project Execution



## Lean DMADV: Project Execution Essentials Handbook (Lean Six Sigma Project Execution Essentials 7)

by Sumeet Savant

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Lean Six Sigma is a powerful methodology for improving the quality and efficiency of business processes. It is a data-driven approach that uses a variety of tools and techniques to identify and eliminate waste. Lean Six Sigma projects are typically executed in a phased approach, with each phase having its own specific goals and deliverables.

This handbook provides a step-by-step guide to Lean Six Sigma project execution. It covers all the essential phases, tools, and techniques, and

provides practical examples and case studies to illustrate how Lean Six Sigma can be used to improve business outcomes.

## **Phase 1: Define**

The Define phase is the first phase of a Lean Six Sigma project. In this phase, the project team defines the problem that they will be addressing, and they develop a project charter. The project charter should include the following information:

- \* The project's purpose and objectives
- \* The project's scope
- \* The project's timeline
- \* The project's budget
- \* The project's team

Once the project charter has been developed, the project team can begin to gather data about the problem that they are addressing. This data can be used to create a process map, which is a visual representation of the process that is being studied. The process map can be used to identify areas of waste and inefficiency.

## **Phase 2: Measure**

The Measure phase is the second phase of a Lean Six Sigma project. In this phase, the project team measures the performance of the process that they are studying. This data can be used to establish a baseline against which to measure improvement.

The project team should collect data on the following metrics:

- \* Process cycle time
- \* Process yield
- \* Process quality
- \* Customer satisfaction

Once the data has been collected, the project team can analyze it to identify areas of improvement.

### **Phase 3: Analyze**

The Analyze phase is the third phase of a Lean Six Sigma project. In this phase, the project team analyzes the data that they collected in the Measure phase. This data can be used to identify the root causes of the problem that they are addressing.

The project team should use a variety of tools and techniques to analyze the data, including:

\* Statistical analysis \* Process mapping \* Value stream mapping \* Cause-and-effect diagrams

Once the project team has identified the root causes of the problem, they can develop solutions to address them.

### **Phase 4: Improve**

The Improve phase is the fourth phase of a Lean Six Sigma project. In this phase, the project team implements the solutions that they developed in the Analyze phase. These solutions should be designed to eliminate the root causes of the problem and improve the performance of the process.

The project team should monitor the results of the improvements to ensure that they are achieving the desired outcomes.

### **Phase 5: Control**

The Control phase is the fifth and final phase of a Lean Six Sigma project. In this phase, the project team develops a plan to sustain the improvements that they have made. This plan should include the following elements:

- \* A monitoring system to track the performance of the process
- \* A process for making adjustments to the process as needed
- \* A training program to ensure that all employees are aware of the new process

Lean Six Sigma is a powerful methodology for improving the quality and efficiency of business processes. This handbook provides a step-by-step guide to Lean Six Sigma project execution, covering all the essential phases, tools, and techniques. By following the steps outlined in this handbook, you can improve the performance of your processes and achieve significant business benefits.



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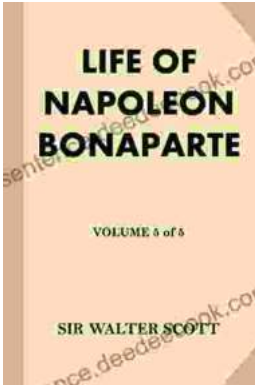
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