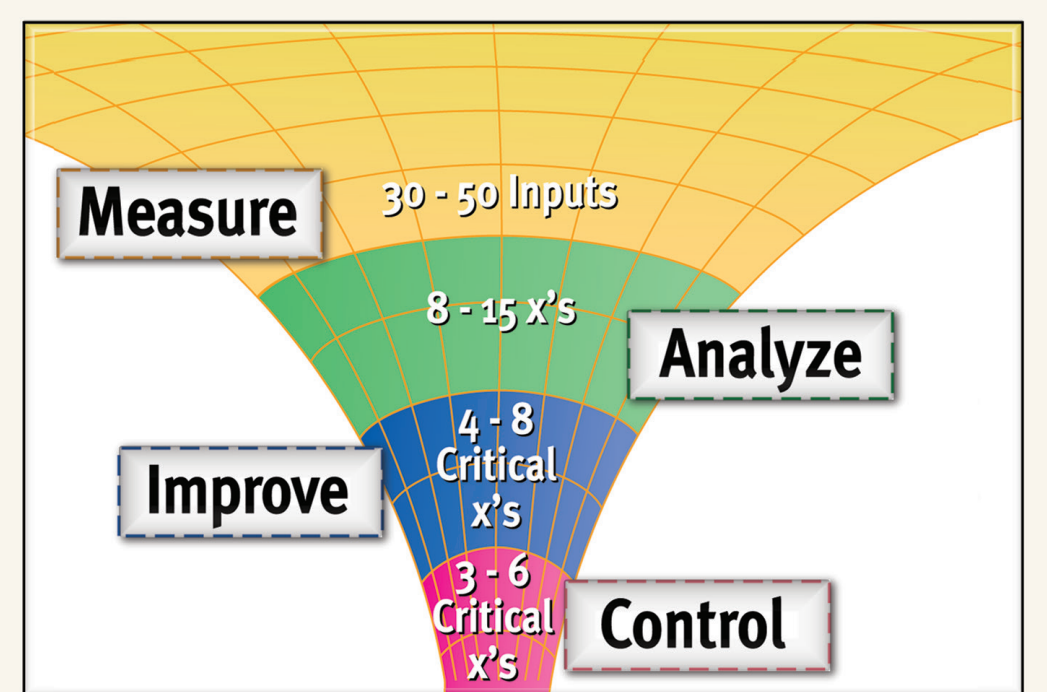


Lean Methods Group

Lean Six Sigma ROADMAP



Define the Project

Define Goal
Develop a clear project charter based on a problem that is relevant to the customer and will provide significant results to the business.

Define and Scope Problem
Determine Project Objective and Benefits
Create Project Charter
Tollgate

Deliverables:

- 1. Define and Scope Problem
- 2. Determine Project Objective and Benefits
- 3. Create Project Charter

Tools and Techniques:

- Identify the Business Gap
- Scope the Project
- Document the Process
- Define Metrics and Defects
- Establish Preliminary Baseline and Entitlement
- Develop Problem & Objective Statements
- Estimate Financial Benefit
- Confirm Improvement Methodology
- Define Project Roles and Responsibilities
- Identify Project Risks
- Establish Project Timeline
- Create Communication Plan

Baseline 'As-Is' Process

Measure Goal
Baseline the as-is process using quantitative and process mapping tools.

Define 'As-Is' Process
Validate Measurement System for Process
Quantify Process Performance
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Deliverables:

- 4. Define 'As-Is' Process
- 5. Validate Measurement Systems for Outputs
- 6. Quantify Process Performance

Tools and Techniques:

- Create a Value Stream Map
- Create a Process Flow Diagram
- Expose Simplification Opportunities
- Run a SCORE Event (if needed)
- Analyze Measurement Systems
- Improve Measurement Systems (if needed)
- Collect Data (Y's)
- Examine Process Stability
- Perform a Capability Analysis

Identify Significant Process x's

Analyze Goal
Identify the significant process x's through statistical and waste analysis.

Identify Potential Causes (x's)
Investigate Significance of x's
ID Significant Causes to Focus on y = f(x's)
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Deliverables:

- 7. Identify Potential Causes (x's)
- 8. Investigate Significance of x's
- 9. Identify Significant Causes to Focus on y = f(x's)

Tools and Techniques:

- Develop a List of Potential Causes
- Narrow Down List of Potential Causes (x's)
- Collect Data on x's
- Perform Graphical Analysis
- Perform Statistical Analysis
- Conduct Waste Analysis
- Evaluate the Impact of the x's on y
- State Preliminary Y = f(x's)

Validate Solution

Improve Goal
Validate that the potential solution will result in the improvement desired and create your implementation plan.

Generate Potential Solutions
Select and Test Solution
Develop Implementation Plan
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Deliverables:

- 10. Generate Potential Solutions
- 11. Select and Test Solution
- 12. Develop an Implementation Plan

Tools and Techniques:

- Generate Potential Solutions
- Create Future State VSM
- Evaluate Potential Solution
- State y = f(x's)
- Run a SCORE Event (if needed)
- Develop an Implementation Plan

Sustain Improvements

Control Goal
Create a control plan, implement the full solution, and successfully transition your project to the process owner.

Create Control and Monitoring Plan
Implement Full Scale Solution
Finalize Transition
Close Project

Deliverables:

- 13. Create Control and Monitoring Plan
- 14. Implement Full Scale Solution
- 15. Finalize Transition

Tools and Techniques:

- Mistake Proof the Process
- Determine the x's to Control and Methods
- Complete MSA on Critical's
- Determine y's to Monitor and Metrics Reporting
- Revise/Develop Process Documentation
- Implement Solution
- Evaluate Implementation
- Develop Transition Plan
- Handoff to Process Owner
- Capture Lessons Learned
- Write Final Report/ Presentation
- Celebrate!