



Lean is a time-tested method for improving performance and results by removing waste (non-value added activities) and standardizing work within a process. Lean embodies a way of thinking and acting to continually improve services.

7 Wastes (+1)

Waste to eliminate from the process

- T Transportation
- I Inventory
- M Motion
- W Waiting
- O Overproduction
- O Overprocessing
- D Defects
- S Underutilized staff creativity

Poka-Yoke

Mistake proofing

Kaizen Event

A facilitated, rapid improvement event typically conducted over 3-5 days

- 1 Map current process
- 2 Identify waste
- 3 Brainstorm improvements
- 4 Map future process
- 5 Complete action plan

Lean Principles

- **Customer focus:** provide what customers want, when they want it, and how they want it
- **Value:** define value from the customer's perspective and relentlessly drive out waste
- **Respect:** empower and engage employees to improve products and services
- **Results:** set ambitious goals and measure results
- **Accountability and Transparency:** follow through on commitments and communicate progress
- **Continuous improvement:** challenge the status quo, validate assumptions, Plan-Do-Check-Act, experiment and learn from experience

WorkOut

Half-day method to help teams identify work unit issues and solutions

- 1 Define value streams
- 2 Identify challenges
- 3 Brainstorm solutions
- 4 Sort and prioritize

5S

A simple method for creating clean, safe, orderly, high performing work environments

- 1S Sort
- 2S Set in order
- 3S Shine
- 4S Standardize
- 5S Sustain

5 Whys

Root cause identification tool

- 1 Identify problem
- 2 Ask, "What should happen?"
- 3 Ask, "What did happen?"
- 4 Ask, "Why?" 5 times
- 5 Complete action plan

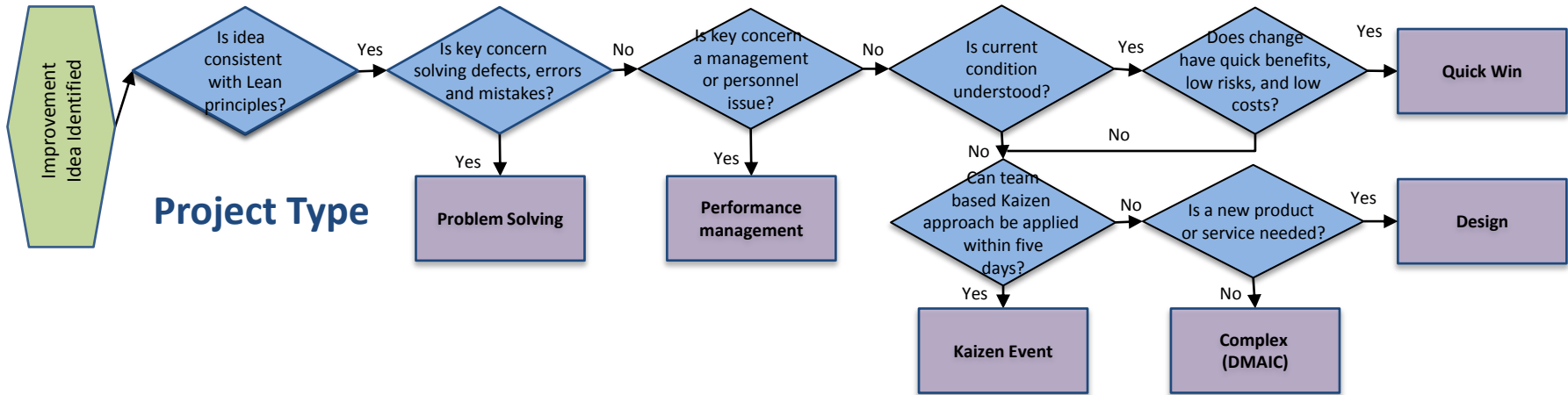
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One-page problem solving or project charter tool

Standard Work

How work should be done

- 1 Define process start and end
- 2 Determine requirements
- 3 Define process steps & time
- 4 Create forms/documents
- 5 Set quality control checks
- 6 Train supervisors and staff
- 7 Validate standard work
- 8 Make adjustments



Project Methodology and Tools

Plan			Do	Check	Act
Define	Measure	Analyze	Improve		Control
<ul style="list-style-type: none"> Project Charter Team Norms SIPOC Diagram Voice of the Customer Techniques Stakeholder Map Benchmarking 	<ul style="list-style-type: none"> Swim Lane Map Value Stream Map Spaghetti Map Process Analysis Control Chart Statistics Cost/Benefit Analysis 	<ul style="list-style-type: none"> Brainstorming Cause and Effect Analysis (Fishbone) 5 Whys Affinity Diagram Relations Diagram Surveys 	<ul style="list-style-type: none"> Brainstorming Idea Box Ranking and Voting 2 x 2 Table Decision Matrix Cost/Benefit Analysis Impact Wheel FMEA Mistake Proofing Implementation Plan Performance Measures Before/After Analysis 		<ul style="list-style-type: none"> Control Plan Standard Work Post-Project Review Storyboard Visual Measures