

Lean Six Sigma: A Proven Roadmap for Delivering Results

This chart shows how a Lean "Kaizen Event" aligns with both the standard P.D.S.A improvement cycle and the Six Sigma D.M.A.I.C process

LEAN: Create Lean Culture
Kaizen Event: Celebrate and Encourage New Efforts
 (All the time as way of doing business)

- Training Topics / Tools:
- Strategic Planning
 - Standardization
 - Future State Value Streams
 - Voice of Business
 - Voice of Process
 - Voice of Employee
 - Voice of Customer

LEAN: Agree on the Process to be Improved
Kaizen Event: Scoping and Chartering the Project (Pre-Event)
Training Topics / Tools:

- Team Charter
- Team Selection
- Check Sheets
- Operational Definitions
- Value Stream Maps
- Surveys
- Flow Charts
- Voice of Customer
- SIPOC
- Brainstorm

LEAN: Implement Improvements and Follow Up

Kaizen event: Implement Improvements and Track Results

- (Post-event)
- Training Topics / Tools:
- 30-60-90 day follow up
 - Time Studies
 - Check Lists
 - Control Charts
 - Voice of Customer
 - Visual Management
 - Sampling
 - Run Charts
 - Surveys
 - Performance Evaluations

LEAN: Make the Current Process Visible and Determine Baseline Data

Kaizen Event: Map Current State and Identify Lead Time and Cycle Time (Monday-Tuesday)

- Training Topics / Tools:
- Business Process Map
 - Capability Analysis
 - Walk-through
 - Timed Observations
 - 5 Whys
 - SIPOC
 - Systematic Diagrams
 - Checklists
 - Pareto Analysis

The inner rings show the standard P.D.S.A improvement cycle, and a typical 7-step problem solving process



The outer ring links the phases of the Six Sigma D.M.A.I.C. process to the standard P.D.S.A cycle

LEAN: Test and Begin to Implement Improvements

Kaizen Event: Test New Improvements, Analyze Risks, Develop Implementation Plans

- (Thursday/ Friday)
- Training Topics / Tools:
- Time Studies
 - Action Registries
 - Kanban
 - Just-in-Time
 - 5 S
 - Change Management
 - Capability Analysis
 - Gantt charts
 - Batching vs. FIFO
 - Pull vs. Push Systems
 - Poka Yoke

LEAN: Design Improvements
Kaizen Event: Create New Process (Wed.)

- Training Topics / Tools:
- Brainstorming
 - Impact / Control Matrix
 - Clean Sheet Redesign
 - Segmentation
 - Nominal Group Technique
 - Affinity Diagram
 - Risk Assessments
 - Work Cell
 - Takt Time
 - Consensus

LEAN: Identify Waste and Inefficiencies
Kaizen Event: ID Non Value-Added Activities and Poor Work Flow (Tuesday - Wednesday)

- Training Topics /Tools:
- T.I.M. W.O.O.D. (7 wastes)
 - Relationship Diagrams
 - Cause and Effect Diagrams
 - Control Charts
 - Force Field Analysis
 - Spaghetti Map
 - Pull Systems
 - Histograms
 - Scatter Diagrams
 - Pareto Diagrams
 - Run Charts
 - Check Lists