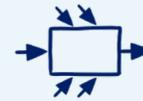




Process Chain

DMAIC Roadmap



Blackbox

D

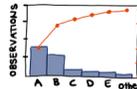
Define Project, Metrics and Team



Problem Statement



Project Charter



Pareto Chart



Stakeholder and Communication



Lean Metrics



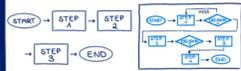
Business Case



SIPOC

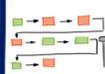
M

Visualize and Analyze Process Chain



Basic Process Mapping

Activity Flowchart



Waste Analysis



Spaghetti Diagram

Swimlane Diagram

Lean Metrics

Value Stream Mapping (VSM)

Develop and Execute Data Collection Strategy



Sample Size

Measurement System Analysis/ Gage R&R



Data Collection Plan

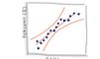
Gather and Visualize Data



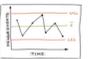
Frequency Plots



Time Series Plot



Probability Plot

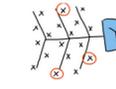


Control Chart



Process Capability

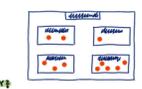
Identify Potential Causes



Fishbone



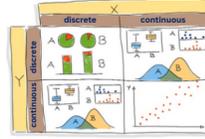
5x Why



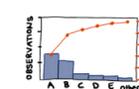
Multi Voting

A

Visualize Cause Effect Relationships



Graphical Tools



Pareto Chart

Verify and Quantify Causes



BOB WOW



Hypothesis Testing



Regression Analysis



DOE

I

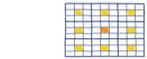
Generate, Test and Implement Solutions

SMED

Set-up Time Reduction



Brainstorming



Creativity Techniques



Blue Sky



Dogma Busting



Pull-Scheduling/Kanban



Line Balancing



5S



Standard Work



Visual Management



Human Error Prevention



Future State VSM



Ergonomics



Simulations & testing solutions



Risk Analysis



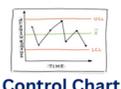
Implementation Plan



Agile

C

Establish Process Management



Control Chart



PDCA



Process Management Chart



Dashboard



RASCI

Evaluate Results



Process Capability (Re-) Calculation



Lean Metrics



Hypothesis Testing

Document Key Learnings, Close Project and Celebrate

