Six Sigma Overview and Applying It Sarah Killeen





THE KINETIX GROUP

Lean Six Sigma

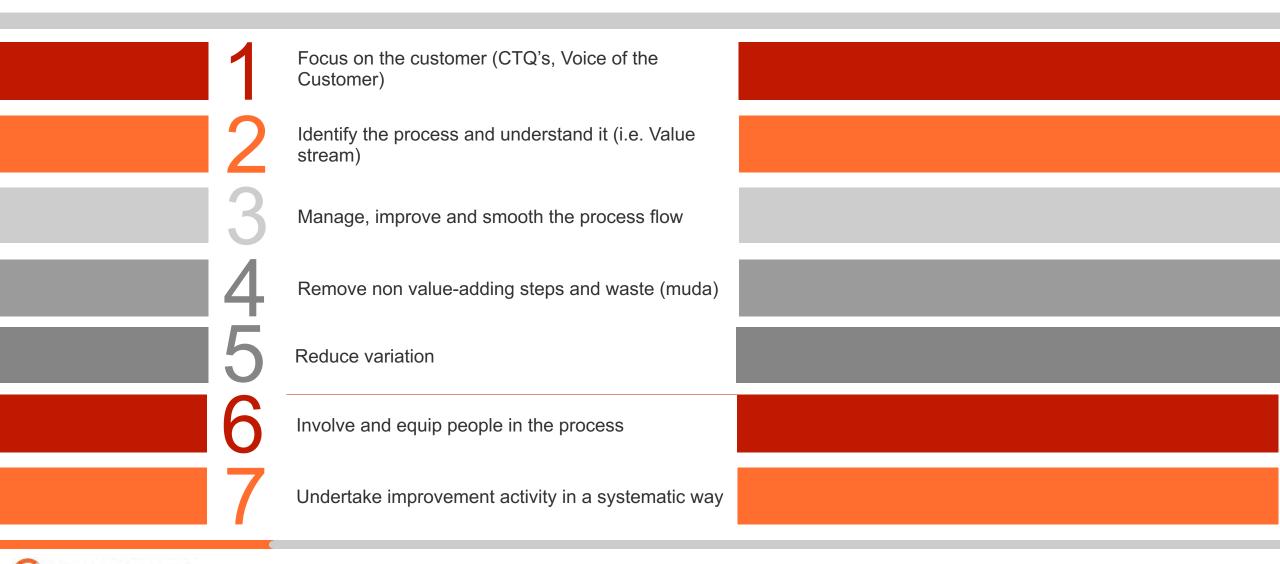
	Lean	Six Sigma
Goal	 Eliminate waste (muda) Increase efficiency 	Eliminate variationReduce defects
Focus	SpeedCost	Quality
Example of Tools and Techniques	 Kaizen events Value stream mapping 	Statistical analysisPareto



The Lean part is doing things more efficiently, but Six Sigma is doing things right.

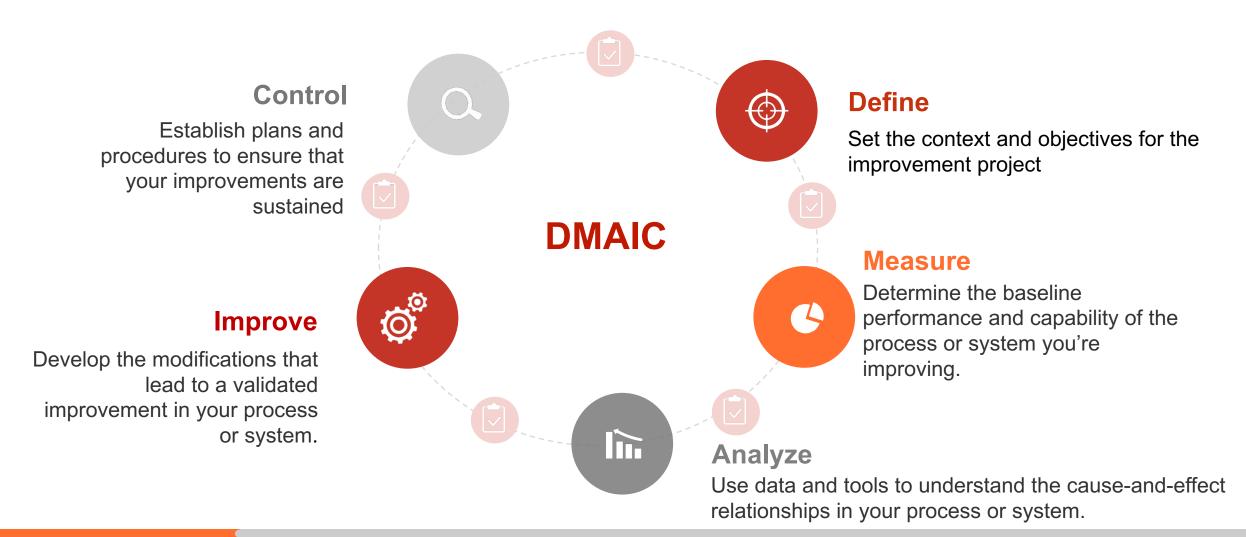


Lean Six Sigma Principles

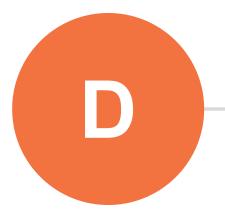


Lean Six Sigma Methodology: DMAIC

A Structured Problem-solving Methodology



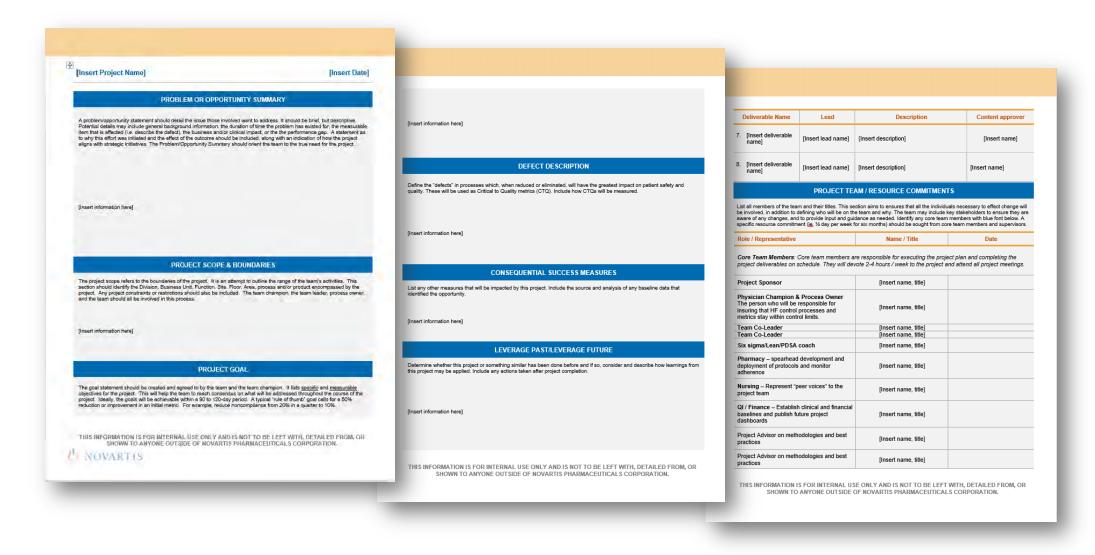
DMAIC: Define



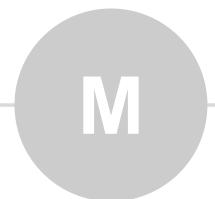
- Project Charter
- SIPOC
- CTQ



DMAIC: Define



DMAIC: Measure

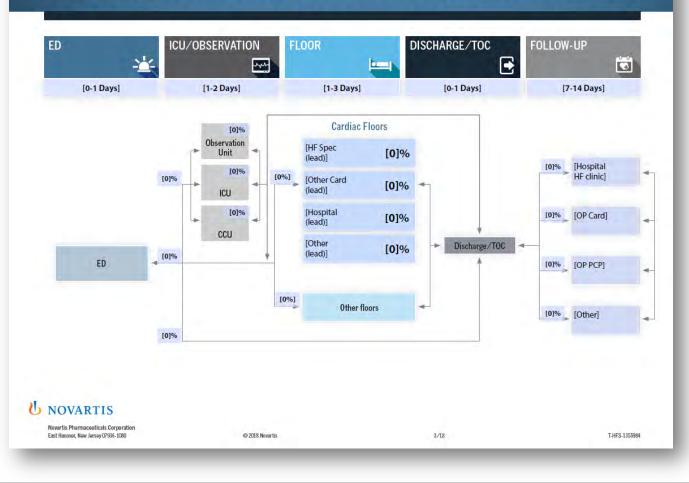


- Process Analysis
 - Mapping
 - Flowcharting
- Benchmarking/Baseline
- Data collection

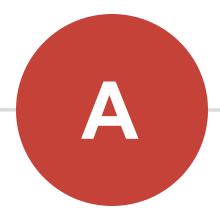


DMAIC: Measure

HEART FAILURE PATIENT JOURNEY EXAMPLE



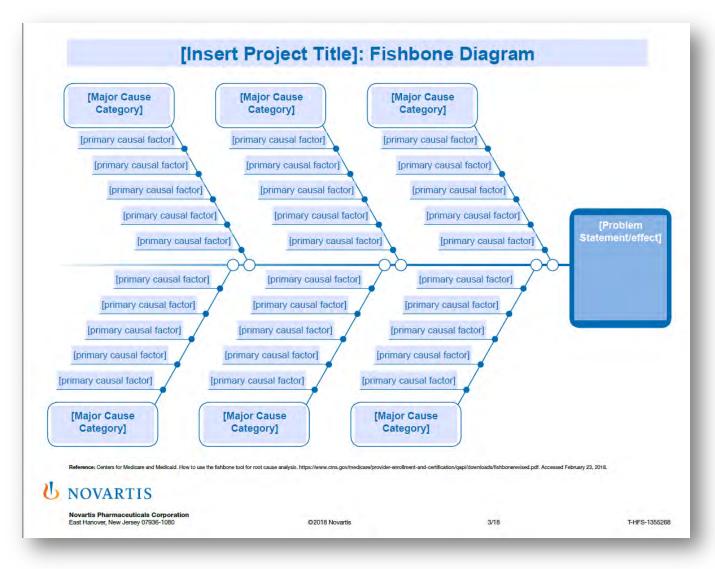
DMAIC: Analyze



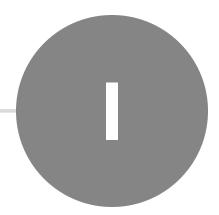
- Fishbone/Ishikawa Diagram
- Affinity Diagram
- 5 Whys



Practical Application: Fishbone/Ishikawa Diagram

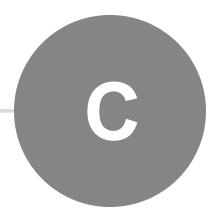


DMAIC: Improve



- Kaizen/Kaizen Blitz
- 5S (Sort/Straighten/Scrub/Systemize and standardize)
- Poka-yoke
- Kanban
- Takt time
- Cycle time reduction

DMAIC: Control



- Control plans/sheets
- Documentation
- Key lessons
- Recommendations
- Training
- Handover

