

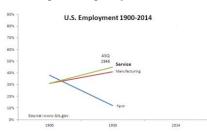
Learning Outcomes



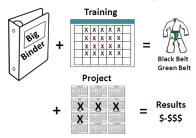
- Learn the difference between Lean Six Sigma and Agile LSS.
- Discover tools and techniques to get your organization on board quickly.
- · Learn to identify problem areas and root causes.
- $\bullet\,$ Discover the 12 principles of Agile Lean Six Sigma.
- Learn to "hack" Lean Six Sigma to make it agile.



20th Century Quality Improvement



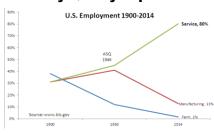
Traditional Lean Six Sigma



The Long Tail of LSS Tools Ing 4 Person The Long Tail of LSS Tools The Long Tail of LSS Tools

Master the Top 4%

21th Century Quality Improvement



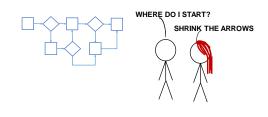
Problems	Methods	Tools
Complicated Problems	DMAIC, DOE	Complex
Uncomplicated Problems	Focus Improve Sustain Honor	Data + 7 Key Tools
Simple Problems	Trial & Error	None

Hacking Lean Six Sigma

The spirit of hacking can be adapted and applied to general business management, not just technical innovation.

Scott Brinker – Hacking Marketing

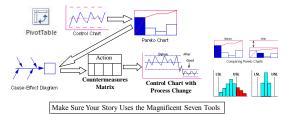
Hacking Lean



Value Stream Mapping	
(2000)	
Postil.	
10 © MMXX You-Whare www.qimacros.com	
Spaghetti Diagramming	
Revised Current Nursing Unit Spaghetti	
The state of the s	
11 © MADX RoowWare www.qimacros.com	
Nursing Unit Spaghetti Diagram	

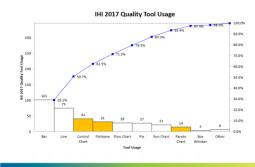
NAHQnext

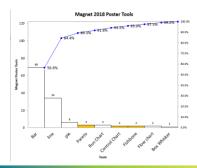
Hacking Six Sigma

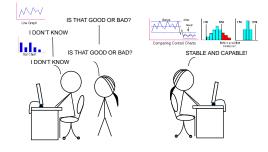


2016 Quality Chart Usage

20











Why Raw Data?



	A	В
1	Date	Defects
2	1/2/2014 - 1/8/2014	65
3	1/9/2014 - 1/15/2014	65
4	1/16/2014 - 1/22/2014	52
5	1/23/2014 - 1/29/2014	52
6	1/30/2014 - 2/5/2014	65
7	2/6/2014 - 2/12/2014	52
8	2/13/2014 - 2/17/2014	41

Because Summarized Data Has Little Nutritional Value

) MMXVI Knowwa

www.turninodataintodollars.com

If You Have Data Like This...

	A	В	C	D	E	F	G	H	- 1	J	K
		POST		ADM	DIS						DENIED
1	Region	DATE	ENT	DATE	DATE	AS	cos	FC	IN1	PT	CHARGES
2	North	6/27/03	Hosp1	2/13/03	1/1/00	OL		X	AEH	0	543.07
3	South	12/24/02	Hosp2	7/13/02	1/1/00	OL		X	BCP	E	215.4
4	South	2/25/03	Hosp2	12/6/02	1/1/00			X	CGH	0	157.92
5	South	5/23/03	Hosp3	10/20/02	1/1/00	OL		X	MAH	0	90.73
6	North	7/15/03	Hosp1	5/7/03	1/1/00	AP		X	HEH	0	4103.78
7	North		_		_			_	_		3224.83
8	North	\$5,	$\mathbf{\Omega}$	\mathbf{n}	\mathbf{n}	٦.	\cap I	V	_	_	3291.76
9	North		.U	UU	_U	и	U/	т		~	13845.9
10	North	40	, -	-	,		•	•	•	•	1151
11	North	12/11/02	Hosp6	9/24/02	1/1/00			F	PTB	0	797
12	North	6/18/03	Hosp7	4/15/03	1/1/00			C	OT1	0	215
13	North	6/25/03	Hosp5	7/26/01	1/1/00	OL		F	PTB	0	2124.86
14	North	8/29/03	Hosp4	6/2/03	1/1/00			F	PTB	0	12
15	North	9/5/03	Hosp6	8/8/03	1/1/00			F	PTB	0	304
16	North		Hosp6		1/1/00			F	PTB	0	89
17	North	9/5/03	Hosp6	8/8/03	1/1/00			F	PTB	0	89

If You Have Data Like This...

Date and time	Unit where	Time between	Location of	Initial stage
pressure injury	pressure injury	admission and	pressure injury	documented.
was first	was first	pressure injury		Name
documented	documented			
10/3/2015 13:23	Restore Care Me	10027	Coccyx	Stage II
10/9/2015 20:17	Restore Care Me	511	Соссух	Stage II
10/11/2015 9:37	ABC	365572	Other	Stage II
10/12/2015 9:59	ABC	244542	Other	Stage II
10/13/2015 17:45	ICU	368940	Ischial Tuberosity	Stage II

You Could Eliminate Pressure Injuries

Data Mining Wizardry

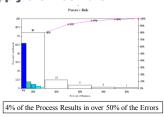


Focus on Performance

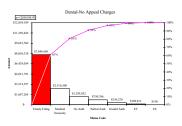
Start with a control chart of defects, mistakes, errors or costs:



Go Deeper – Apply the 4-50 Rule



Use Paretos to Find What to Fix



Use Paretos to Find What to Fix



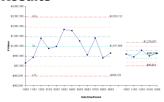
Identify Root Causes



Countermeasures (Mistake Proofing)

- Countermeasure
 - Work with insurance company to resolve excessive denials
 - Reduce delays that contribute to timely filling denials

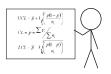
Verify Results Charges Codes as Denials



Reduced denials by 35% starting the following Monday (\$380,000/month)

Kick-Butt Improvement Posters	
Control Chart Pareto Chart Cause-Effect Diagram	
Before After Perfore After	
Comparing Control Charts Comparing Pareto Charts	
NAHQnext	
85% of C-suite executives say their	
company struggles with problem	
diagnosis, not problem solving, and that this comes with a significant cost.	
January-February 2017 HBR	
Six Sigma is too complex and time-	
consuming to fit into a regular workday.	
We need tools that don't require the entire organization to undergo	
weeks-long training programs. Thomas Wedell-Wedellsborg	
January-February 2017 HBR	

Hacking Six Sigma Training





You Don't Need to Learn Formulas



You Don't Need to Learn Decision Trees







Move Center Line Down or Up



Agile Lean Six Sigma

Data

Software

Training







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Why Pivot Now? WHYDO WE NEED TO CHANGE SIX SIGMA? TO AVOID EXTINCTION

Agile Lean Six Sigma

Traditional

Agil

- Big Implementations
- Rigid processes
- Maintaining the status quo
- Big projects
- Silos
- Complexity
- Small Agile Teams
- Agile
- Accelerating speed and adaptability
- Laser-focused, data-driven projects
- Engagement
- Simplicity

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NAHQ next



Key Takeaways

- ←Lean Six Sigma Can Be Fast and Fun!
- ← Hack Lean By Eliminating the Arrows
- ← Hack Six Sigma By Using Software and the Magnificent Seven Tools



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Questions

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QI Macros – Affordable Tools for the Statistically Challenged



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