VHA Project through Quality Companion

Team 2 -

Shiyun Han, Abhishek Goswami, Yuchen Guo, Guowei Hou, Navya Sree Peddu, Mahmoud Hamwi

Beginning A Project

Untitled - Quality Companion - [Project Today]

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Project Manager
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Project Today
Tasks
Metrics
Custom Categories
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2: Defect Definition
3: Measurement System Evaluati
4: Baseline Process Performance
5: Establish Goals
6: Identify Potential Xs
7: Identify Potential Leverage Va
8: Determine Optimal Solution
9: Implement Improvements
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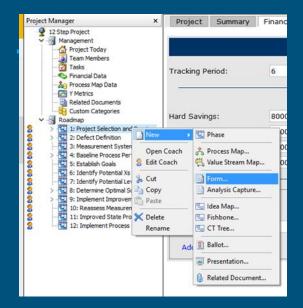
Adding Team Members

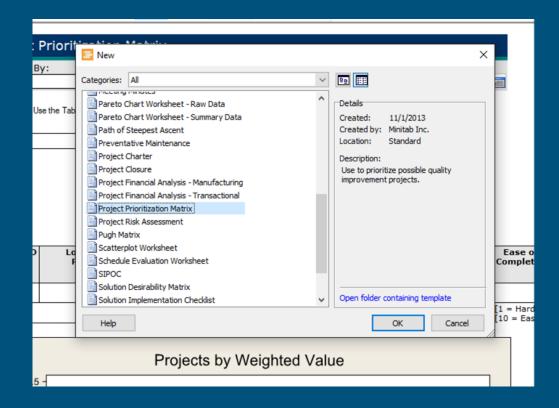
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Process Map Data	🧕 Guowei H	Name	Lucy Han			
······································	3 Abhishek	Job title:	Engineer		~	
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2 Inplement Process Controls						

Creating Financial Data

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8	5: Establish Goals			
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Selecting tools from the Roadmap



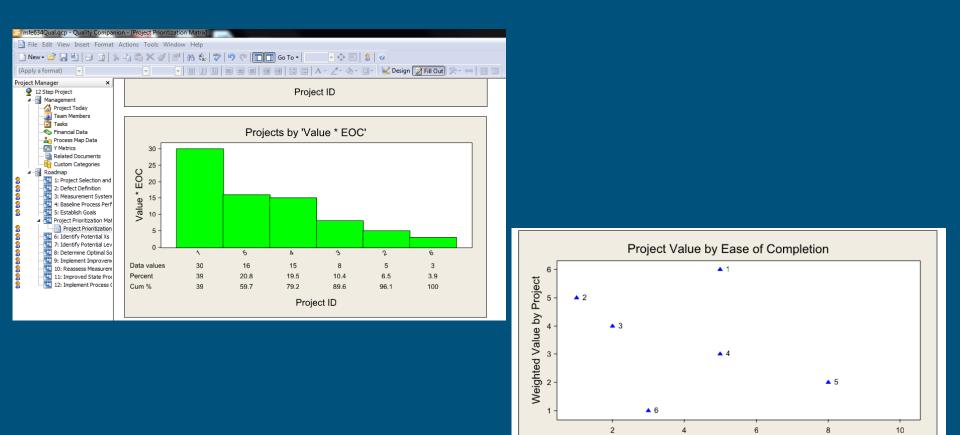


Project Prioritization Matrix

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4Qual.qcp - Quality Compani	inn a [Project P	institution Matrix															
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3: Measurement System 4: Baseline Process Perf				Selec	tion Criteria												
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Project Prioritization cont.

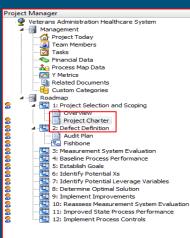


(harder)

Ease of Completion

(easier)

Creating Project Charter After Project Selection



Project Charter

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Project Authorization

Organization:	Champion:	Process Owner:
Veterans Health Care Adminis	tra Professor J. Romeu	Team 2
Project:		Project #:
Veterans Administration Healt	hcare System	
Problem Statement:		
wait time goal.		
Project Objective: Reduce the number of appo 43% to less than 10%.	intments with wait times e	xceeding the 14 day goal from
Reduce the number of appo		
Reduce the number of appo 43% to less than 10%.	intments with wait times end Initial Goal: New oversight and accountability policies	xceeding the 14 day goal from Estimated Benefits: \$9,000,000
Reduce the number of appo 43% to less than 10%. Estimated Defect Level:	Initial Goal: New oversight and	Estimated Benefits:
Reduce the number of appo 43% to less than 10%. Estimated Defect Level: Major Approval Date:	Initial Goal: New oversight and accountability policies	Estimated Benefits: \$9,000,000
Reduce the number of appo 43% to less than 10%. Estimated Defect Level: Major Approval Date:	Initial Goal: New oversight and accountability policies Champion Signature:	Estimated Benefits: \$9,000,000 Process Owner Signature:
Reduce the number of appo 43% to less than 10%. Estimated Defect Level: Major Approval Date: 4/6/2016	Initial Goal: New oversight and accountability policies Champion Signature: Prof. Romeu	\$9,000,000 Process Owner Signature: Shiyun

Project Team

Name	Role	Comments	Phone
Shiyun Han	Project Leader		
Abhishek Goswami	Financial Analyst		
Guowei Hou	Black Belt		
Mahmoud Hamwi	Black Belt		
Navya Sree Peddu	Health and Safety Re		
Yuchen Guo	Green Belt		

Project Definition and Scoping

Metrics (unit of measure): % reduction of long wait time appointments

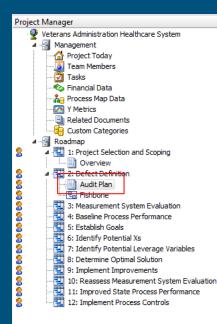
Critical to Satisfaction (linkage to customer):

Creating Tasks and Schedule

Project Ma	nager >	(D	: %	Subject	Assigned To	Planned Start.	Due Date	Actual Start Date	Completion Date	Status	% Complete
· 🔮 12	Step Project			Click here to add a task						Not Started	0%
× 🗄	Management Project Today	٢		Create schedule and budget plan	Lucy Han	4/4/2016	4/11/2016	4/4/2016	None	In Progress	90%
	Team Members	2		Collect data on schedulers and managers	Abhishek Go	4/6/2016	5/11/2016	None	None	Not Started	0%
	Tasks			Analyse data	Yuchen Guo	5/11/2016	5/18/2016	None	None	Not Started	0%
	Sinancial Data			Create improvement tasks	Guowei Hou	5/18/2016	5/25/2016	None	None	Not Started	0%
	Rep Process Map Data			Create implementation schedule	Mahmoud Ha	5/25/2016	6/2/2016	None	None	Not Started	0%
	Y Metrics ⊡ Related Documents			Implement improvements	Navya Peddu	6/2/2016	6/16/2016	None	None	Not Started	0%
	Custom Categories										
	Roadmap										
	1: Project Selection and Scoping										
	2: Defect Definition 3: Measurement System Evaluation										
	4: Baseline Process Performance										
8	🔁 5: Establish Goals		_								
	🔁 6: Identify Potential Xs		_								
	7: Identify Potential Leverage Variables		_								
2	9: Implement Improvements		_								
	🔁 10: Reassess Measurement System Evaluatio	n	_								
8	🔣 11: Improved State Process Performance										
8	🔁 12: Implement Process Controls		_								

Defect Definition - Audit Plan

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Project:		Document #:		
Veterans Administration	Healthcare System	25 A.S.		
Location:		Revision:		
Syracuse, NY		0		
Process Owner:		Revision Date:		
Team 2			đ	
Prepared By:	Approved By:	Date:		
Abhishek Gowami	Lucy Han	4/5/2016	and the second s	

The Audits Table

When establishing a plan for a single audit, which may check multiple items/criteria, complete a row for each audit item/criteria using the same audit number. The audit number is typically obtained from the auditing function.

Frequency: How often the audit should be performed. For example, Perform an audit every 4 weeks, Perform an audit every 2000 cycles, Randomly once every three months.

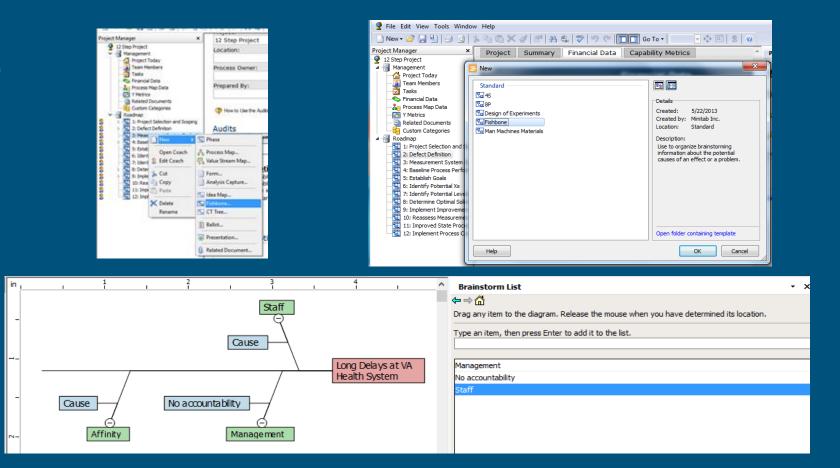
 $\ensuremath{\textbf{Description/Scope}}$: The item(s) you are auditing. For example, Operator training or SOP manuals.

Criteria: The standards which will be used to gauge whether the audit passes or fails. For example, "Has the operator been trained using the online training system and have the records of the training been posted to the training database?" or "Is the SOP manual up to date and placed at the workstation in clear view of the operator?"

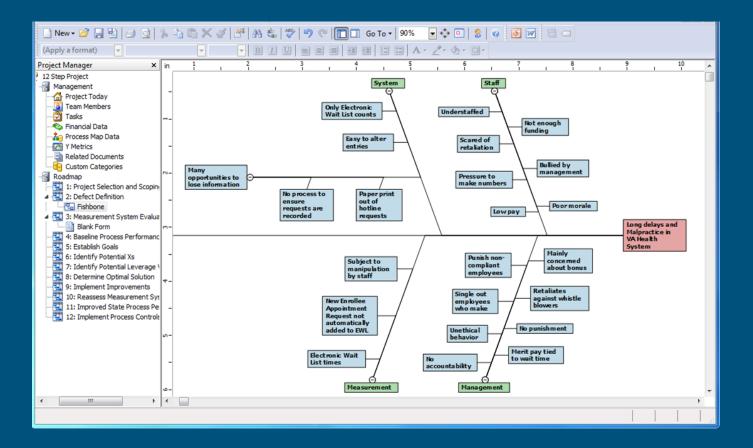
Location of Data: The location of supporting documents or data for the audit criteria. For example, H:\Server1\Training Database or L:\Procedures\Master SOP Files.

Reference: Any additional materials used for the audit item/criteria. For example, Online training materials or Master SOP files.

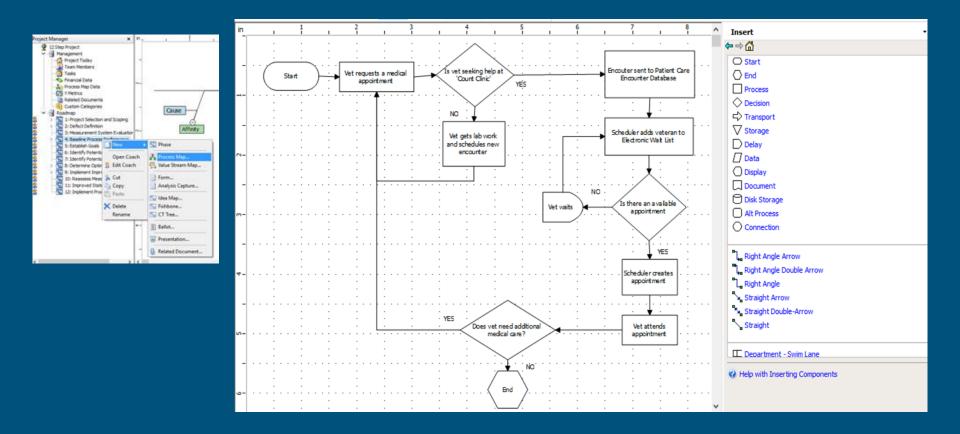
Creating the Fishbone Diagram



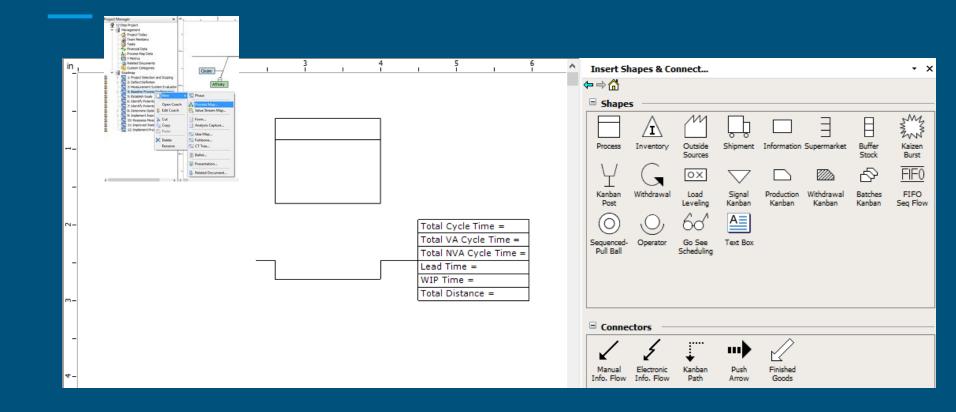
Fishbone Diagram cont.



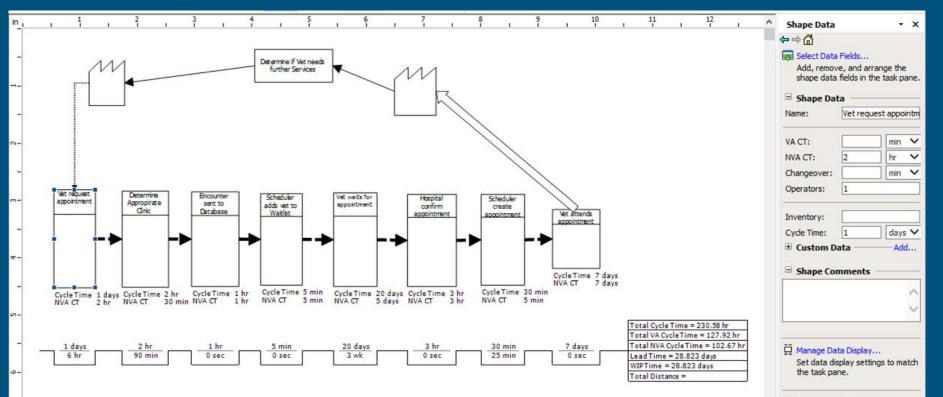
Process Flow Chart



Creating Value Stream Map



Value Stream Map cont.



Capability Analysis

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	12 Step Project	
	- 🛃 Management	
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2	> 9: Implement Improvements	
2	10: Reassess Measurement System	
2	11: Improved State Process Perfo	r
0	12: Implement Process Controls	

Capability Analysis (Normal)

Minitab	: Stat >	Quality	Tools > (Capability /	Analysis >	Normal

Date:	
4/4/2016	đ

Input

Variable Description:

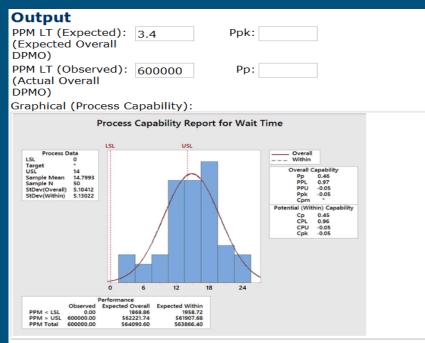
Wait time between appointment request and a scheduled appointment date

Subgroup Size:	Unit of Measure:	LSL:	Target:	USL:
	Days	0	7	14

Checklist

Has the measurement system been validated?	●Yes ○No
Are there any hard boundaries and have they been applied?	●Yes ○No
Are the data reasonably normal?	●Yes ○No
If 'No', has the data been transformed? (e.g. Box-Cox)	⊖Yes ⊖No

Capability Analysis - Cont.



Conclusion

Observations:

- The process capability analysis shows that the process is not capable.
- Other facilities in different states should be used for benchmarking.
- Management overhaul is required to improve the scheduling process and reduce waiting times.

Gauge RR

bject Manager ×				
VHA waiting time gauge R&R	Gage R&R Study (Crossed)			
A S Management	Minitab: Stat > Quality Tools > Gage Study > Gage R&RStudy (Crossed)			
Project Today				
Team Members	Project:			
Tasks	VHA waiting time gauge R&R			
	Project Leader:	Date:		
- An Process Map Data	Lucy Han	4/4/2016		
Y Metrics				
Related Documents	Input			
	Variable Description: Waiting time			
A 📲 Roadmap				
1: Project Selection and Scoping				
2: Defect Definition				
3: Measurement System Evaluation	Study Parameters			
Gage R&R Study (Crossed)	# of 90	# of 3		
4 🛄 4: Baseline Process Performance		Appraisers:		
Analysis capture	# of Trials: 3	Randomized? ⊚Yes ⊜No		
Capability Analysis (Nonnormal) 1				
Value Stream Map	Appraisers			
S: Establish Goals	Name or Identification:			
Project Prioritization Matrix G: Identify Potential Xs				
	All OYes No gualified?			
	quaimed?			
9: Implement Improvements	Inspection Capability			
10: Reassess Measurement System Evaluation	Is there a desire to evaluate the Gage Syste	em to determine • Yes		
11: Improved State Process Performance	if it can be safely used to accept/reject output?			
12: Implement Process Controls	If 'Yes', enter the Process Tolerance [USL-LS	GL] into Minitab - Options.		
	Process	-		
	Tolerance: 14-0			
	Quality of Sample			
	Does the variation of the selected samples fairly OYes ONO represent the variation of the process?			
	If 'Yes', explain rationale:			
	Random sample was generated through mi	nitab		
	Kandom sample was generated unough mi	Incab.		
	If 'No', enter a historical or estimated Proce Minitab - Options. Historical Process StDev:	ss Standard Deviation into		

Graphical (Gage R&R (ANOVA or Xbar-R)) (optional):

Data collection system

4/4/16

Gauge R&R for Waiting time measurmenet VA

Gauge RR

Reported by: Mahmoud Hamwi Tolerance: Misc:

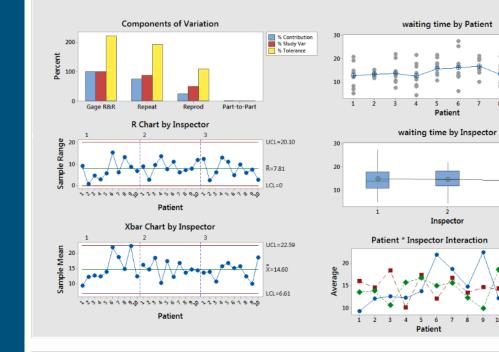
> 0 10

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10

Inspector



Conclusion

Gage name:

Date of study:

Generally accepted guidelines for evaluating all the % R&R values in the "Total Gage R&R" row (%SV, SV/Toler, and SV/Proc): <10% Ideal, 10 to 30% Marginal, >30% Not Acceptable

- Gauge variation is too high, the measurement system should be reevaluated.

Thank You