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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- 🔮 12 Ste	p Project
🗸 - 🗐 Ма	nagement
	Project Today
	Team Members
- 7	Tasks
	Financial Data
- *	Process Map Data
- 6	Y Metrics
	Related Documents
- 6 9	Custom Categories
🗸 - 🔄 Ro	admap
8 - 🖽	1: Project Selection and Scoping
8 🔤	2: Defect Definition
8 🗄	3: Measurement System Evaluation
8 🗄	4: Baseline Process Performance
8 🔤	5: Establish Goals
8 🔤	6: Identify Potential Xs
8 🗄	7: Identify Potential Leverage Varia
8 🔤	8: Determine Optimal Solution
8 🔤	9: Implement Improvements
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8 🗄	11: Improved State Process Perfor
8	12: Implement Process Controls

Sunday, April 3	, 2016					Customize Project
🚰 Welcome						
Get Started Overview Start a project Add a tool Getting Started (.pd	f & files)	AL AL	earn More bout templates bout data bout data sharing sport Visio files		View Webcasts View online Webcast of Quality Companio	ts to see how to make in.
🔁 Status						
Project	Planned start da	te	Due date	% Complete	Status	Assigned to
12 Step Project	None		None	0	Not Started	None
No tools assigned to you	- Add a Tool					
🍄 Financial Data »	•					
Tracking Period	12 months					
	Estimated	Final				
Hard Savings	0	0				
Soft Savings	0	0				
Implementation Cost	0	0				
Tasks »						
No tasks assigned to you	ı - Manage Tasks					
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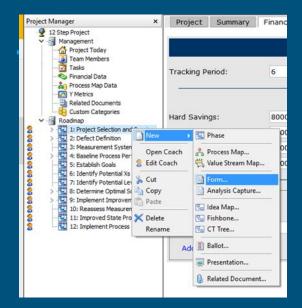
Adding Team Members

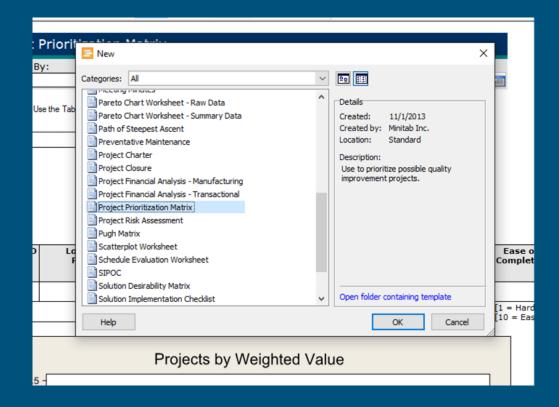
Project Manager ×	🗅 Name	√	Job Title	Department	E-mail	Business Phone
🔮 12 Step Project	Click here	to add a t				
🗸 🔄 Management	J Yuchen G					
Project Today	Navya Pe	Team Memb	er Properties			×
Team Members						
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Financial Data	🚨 Lucy Han	Name	Lucy Han			
Process Map Data	🧕 Guowei H	INGINE	Lucy han			
	退 Abhishek	Job title:	Engineer		~	
Related Documents		1				
		Departmen	it: Team 2		~	
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1: Project Selection and Scoping 2: Defect Definition						
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8 4: Baseline Process Performance		-				
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8: Determine Optimal Solution						
 5: Establish Goals 6: Identify Potential Xs 7: Identify Potential Leverage Variables 8: Determine Optimal Solution 9: Implement Improvements 10: Reassess Measurement System Evaluation 11: Improved State Process Performance 						
10: Reassess Measurement System Evaluation		Help			OK Car	ncel
12: Implement Process Controls						

Creating Financial Data

Project Manager ×	Project Summary	Financial Data Capability Metrics	
2 12 Step Project			
✓ · · · · · · · · · · · · · · · · · · ·		Financial Data	
I Team Members			
Tasks Financial Data	Tracking Period:	6 months	
···· 💽 Y Metrics			
		Estimate	Final
	Hard Savings:	8000000	0
	Soft Savings:	100000	0
Comparison C	Implementation Costs:	500000	0
 Section 2 4: Baseline Process Performance Process Map 	Cash Flow:	1000000	0
Capability Analysis (Normal)			
S: Establish Goals			
 I: Project Selection and Scoping I: Project Selection and Scoping I: Defect Definition I: Baseline Process Performance I: Baseline Process Map Capability Analysis (Normal) I: Capability Analysis (Normal) I: Establish Goals I: Identify Potential Leverage Val I: B: Determine Optimal Solution I: Reassess Measurement System I: Improved State Process Performance I: Imprement Process Performance 	Add additional Fields	Custom Financial Data	3
11: Improved State Process Perfor 12: Implement Process Controls	here Add		

Selecting tools from the Roadmap





Project Prioritization Matrix

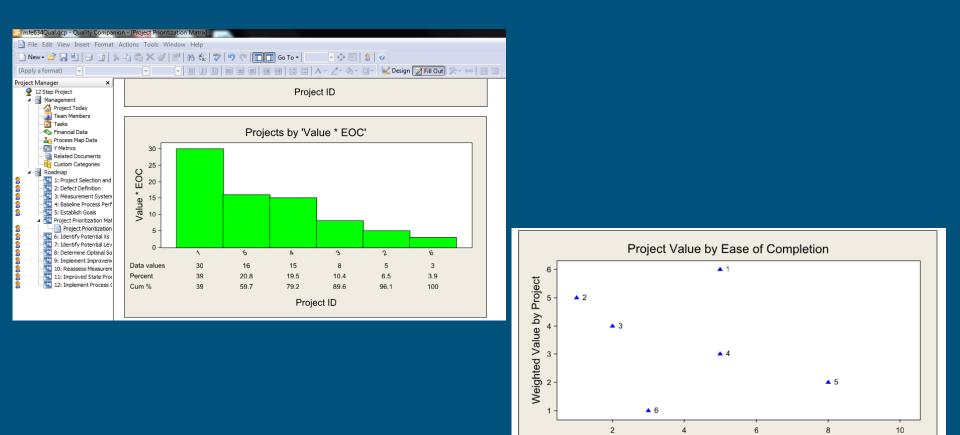
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tep Project Management Project Today Team Members	Project Prepared E Navya Sre		latrix		Date:												
Team Members Tasks Financial Data Process Map Data Y Metrics Related Documents	() How to U				Importance of Each Criteria												
Custom Categories Roadmap 1: Project Selection and 2: 2: Defect Definition 3: Measurement System 4: Baseline Process Perf 2: 5: Establish Goals					Selection Criteria	1											
Project Prioritization Mat Project Prioritization G: Identify Potential Xs 7: Identify Potential Lev 8: Determine Optimal So	Project ID	Location / Process	Process Owner	Estimated Benefits (\$K)	Project Name		Weighted Value by Project	Ease of Completion	Value * EOC	😇 mfe634Qual.qcp - Quality Compar	nion - [Project Priori	tization Matrix)					
9: Implement Improvem 10: Reassess Measurem	1	VHA	Hospital Manageme	800000	Overhaul of Management Policies	6	6	5	5 30	File Edit View Insert Format	Actions Tools W	/indow Help					
11: Improved State Proc 12: Implement Process (2	VHA	Faculty Director		Audit Resource Allocation	5	5	1	. 5	📄 New 🕶 📄 🔮 🥔 👔	▶ Ъ ₲ X 	🕾 🗛 👌 🐴	> •> 🤊 🕅	👖 Go To 🕶	- 🔶 🗉	8 0	
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	5	VHA	Improvement Offici		Complaint System	2			3 16	Project Manager × 2 12 Step Project							
	6	VHA	Hospital Schedulers		system Co-ordinate Appointment	1				Management							
	°		Hospital Schedulers		Database eighted Effect on Each Criteria			[1 = Hard]		Team Members			Projec	cts by Wei	ighted Val	ue	
							J	[10 = Easy]		Financial Data Financial Data Process Map Data Related Documents Listom Categories Introject Selection and Si Neasurement System Si Assaline Project Printization Mat Project Printization Mat	- 6 - 5 - 7 - 4 - 4 - 2 - 2 - 1 - 1 - 0 0		2	g		5	6
										G: Identify Potential Xs G: Identify Potential Xs G: Identify Potential Lev G: Determine Optimal So G: 9: Implement Improvem I0: Reassess Measurem I1: Improved State Prov	Data values Percent Cum %	6 28.6 28.6	5 23.8 52.4	4 19 71.4	3 14.3 85.7	9.5 95.2	6 1 4.8 100

12: Implement Process (

Project ID

Project Prioritization cont.

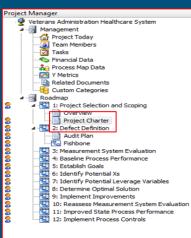


(harder)

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 Admin	nistra Professor J. Romeu	Team 2
Project:		Project #:
Veterans Administration Hea	althcare System	
Problem Statement:		
wait time goal.		
	pointments with wait times e	xceeding the 14 day goal from
	pointments with wait times e Initial Goal:	xceeding the 14 day goal from Estimated Benefits:
Reduce the number of ap 43% to less than 10%.		Estimated Benefits: \$9,000,000
Reduce the number of ap 43% to less than 10%. Estimated Defect Level:	Initial Goal: New oversight and	Estimated Benefits:
Reduce the number of ap 43% to less than 10%. Estimated Defect Level: Major	Initial Goal: New oversight and accountability policies	Estimated Benefits: \$9,000,000
Reduce the number of ap 43% to less than 10%. Estimated Defect Level: Major Approval Date:	Initial Goal: New oversight and accountability policies Champion Signature: Prof. Romeu	Estimated Benefits: \$9,000,000 Process Owner Signature:

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

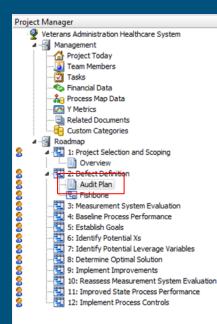
Critical to Satisfaction (linkage to customer):

Creating Tasks and Schedule

Project	Manager >	(D	! 🖇	Subject	Assigned To	Planned Start.	Due Date	Actual Start Date	Completion Date	Status	% Complete
- 9	12 Step Project			Click here to add a task						Not Started	0%
Y.	Management			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%
	Se Financial Data			Create improvement tasks	Guowei Hou	5/18/2016	5/25/2016	None	None	Not Started	0%
	Process Map Data	٢		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		_								
8	2: Defect Definition		_								
8	4: Baseline Process Performance		_								
8			_								
8	6: Identify Potential Xs		-								
2			-								
	9: Implement Improvements		-								
000000000000000000000000000000000000000	10: Reassess Measurement System Evaluatio	n	-								
8	11: Improved State Process Performance	\vdash	+								
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				
Prepared By:	Approved By:	Date:		
Abhishek Gowami	Lucy Han	4/5/2016	-	

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.

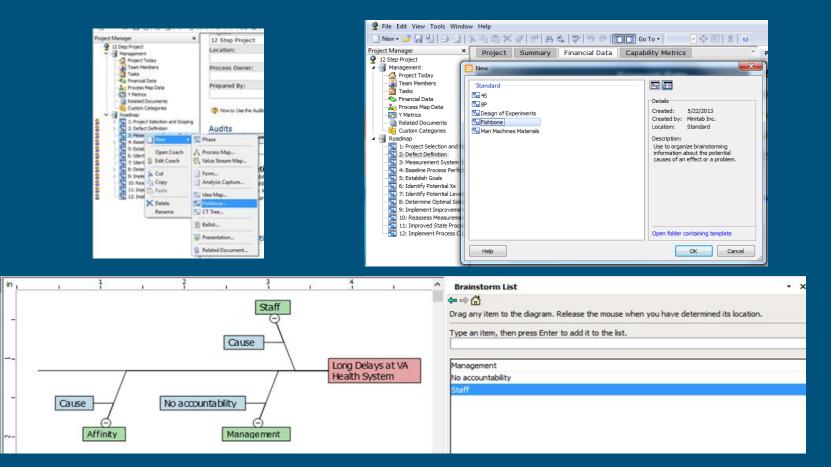
 $\ensuremath{\textbf{Description/Scope}}$: The item(s) you are auditing. For example, Operator training or SOP manuals.

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?"

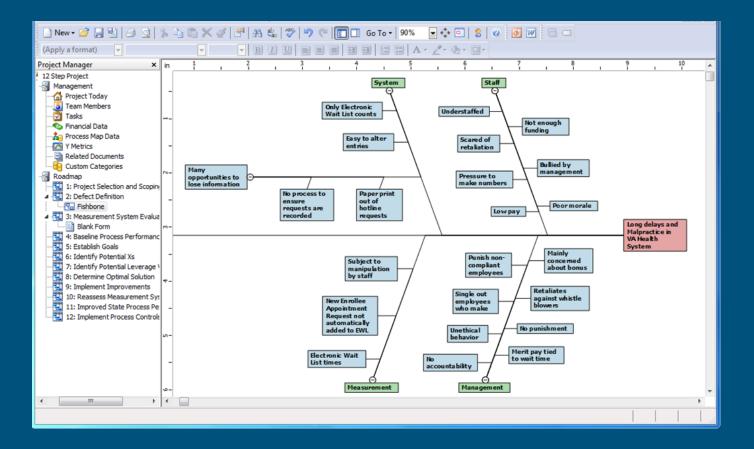
Location of Data: The location of supporting documents or data for the audit criteria. For example, H:\Server1\Training Database or L:\Procedures\Master SOP Files.

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

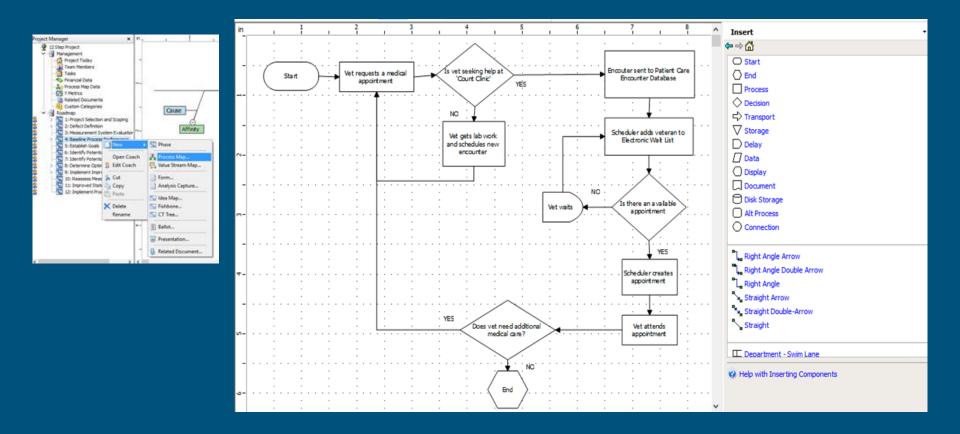
Creating the Fishbone Diagram



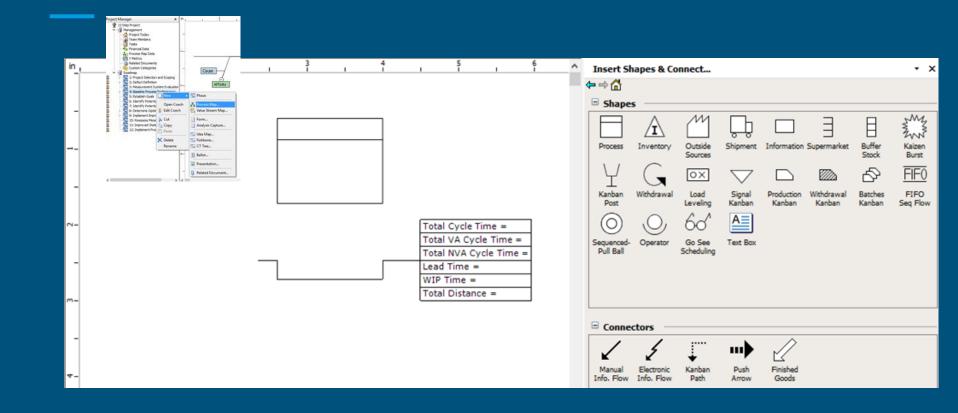
Fishbone Diagram cont.



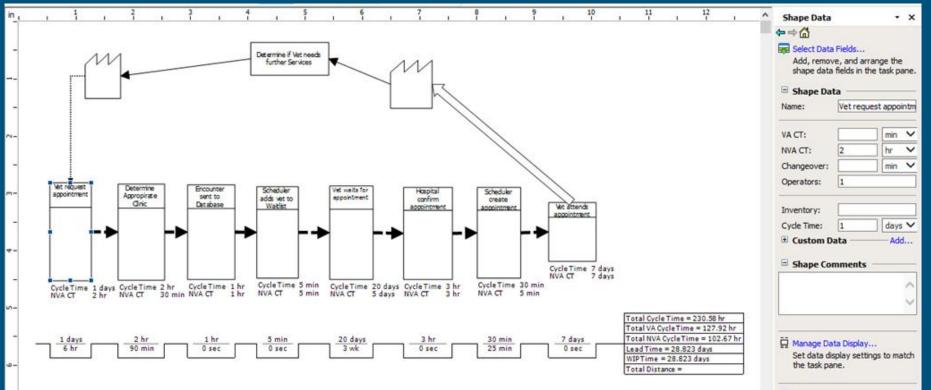
Process Flow Chart



Creating Value Stream Map



Value Stream Map cont.



Help with Shape Data

Capability Analysis

, Lo	ect Manager	×
	12 Step Project	
	🗸 📲 Management	
	🔁 Tasks	
	🍫 Financial Data	
	- K Metrics	
	Custom Categories	
_	🗸 📲 Roadmap	
8	I: Project Selection and Scoping	J.
2	> 🔁 2: Defect Definition	
2	3: Measurement System Evaluat	
<u>.</u>	 4: Baseline Process Performance 	2
2	Process Map	
	Capability Analysis (Normal)	۰.
	5: Establish Goals	
	6: Identify Potential Xs	
2	7: Identify Potential Leverage V	arii
2	> 🛃 8: Determine Optimal Solution	
2	> 🔁 9: Implement Improvements	
2	10: Reassess Measurement Sys	
2	11: Improved State Process Per	
5	12: Implement Process Controls	

Capability Analysis (Normal)

Minitab: Stat >	Quality To	ols > Capability	/ Analysis >	Normal

Project:	
12 Step Project	
Project Leader:	Date:
Lucy Han	4/4/2016
Status of Process Evaluation:	
Baseline	

Input

Variable Description:

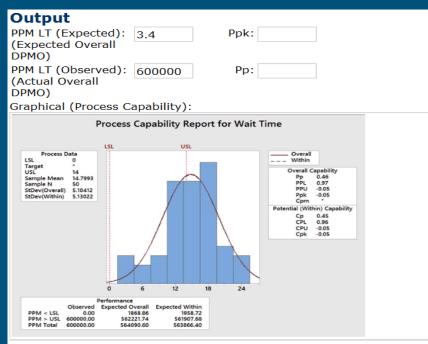
Wait time between appointment request and a scheduled appointment date

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 Anagement	Minitab: Stat > Quality Tools > Gage Study > Gag	e R&RStudy (Crossed)		
Project Today	Project:	,		
- 🚺 Team Members	VHA waiting time gauge R&R			
🔁 Tasks	Project Leader:	Date:		
- 🍫 Financial Data	Lucy Han	4/4/2016		
📲 Process Map Data	Lacy Harr	1, 1, 2010		
Y Metrics				
Related Documents	Input			
Custom Categories	Variable Description:			
Roadmap	Waiting time			
1: Project Selection and Scoping				
 Z. Defect Definition Z. Defect Definition Z. Measurement System Evaluation 				
Gage R&R Study (Crossed)	Study Parameters	# of 3		
4 El Asseline Process Performance	# of 90 Samples:	# of 3 Appraisers:		
Analysis capture	# of Trials: 3	Randomized? Yes ONO		
Capability Analysis (Nonnormal) 1	5			
📇 Value Stream Map	Appraisers			
🔺 🔣 5: Establish Goals	Name or Identification:			
Project Prioritization Matrix				
6: Identify Potential Xs	All OYes ONo			
7: Identify Potential Leverage Variables	qualified?			
8: Determine Optimal Solution	Transation Constitute			
9: Implement Improvements	Inspection Capability Evaluation Is there a desire to evaluate the Gage System to determine Yes 			
11: Improved State Process Performance	Is there a desire to evaluate the Gage System to determine Yes if it can be safely used to accept/reject output? No			
12: Implement Process Controls	If 'Yes', enter the Process Tolerance [USL			
	Process			
	Tolerance: 14-0			
	Quality of Sample			
	Does the variation of the selected sample represent the variation of the process?	s fairly		
	If 'Yes', explain rationale:			
	Random sample was generated through	minitab.		
	Random sample was generated unough	ininitab.		
	If 'No', enter a historical or estimated Pro Minitab - Options. Historical Process StDev:	ocess Standard Deviation into		
	500ev.			

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

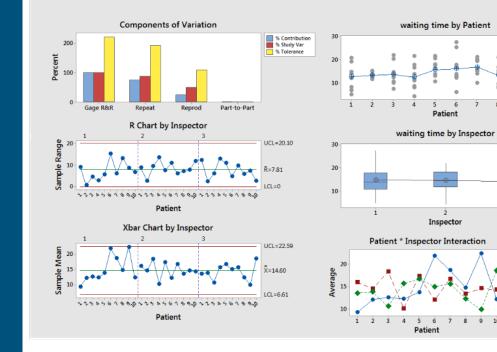
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Inspector



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