ROI Analysis - QIT Complaints/Issues Management System

1) Customer Complaints Process

		Process Tin			
Customer Complaint Process	W/O a system	Manual System	In-hours system	QIT System	Remark
					In QIT System Customer can
Service Rep. takes customer complaints	0	10	10	0	enter complaint directly online
					In QIT system no information
Service Rep. sends information to QA	0	10	2	0	needs to be sent
QA reviews and identifies key issues	0	20	5	1	
Total Minutes for a Complaint	0	40	17	1	

2) Nonconformance Process

		Process Tin			
Nonconformance Process	W/O a system	Manual System	In-hours system	QIT System	Remark
Employee submits a nonconformance	0	5	5	5	
					In QIT system no information
QA collects and enters information	0	10	0	•	needs to be sent
					In QIT system, the instance
					reports will help user identify
					key issues by using cost or risk
QA reviews and identifies key issues	0	20	5	1	as index.
Total Minutes for a Nonconformance	0	35	10	6	

3) Corrective Action Process

		Process Tin			
Corrective Action Process	W/O a system	Manual System	In-hours system	QIT System	Remark
QA initiates CAR	0	20	5	5	
QA sends CAR	0	10	1	1	
Responsible Person receives CAR	0	5	1	1	
Responsible person analyzes CAR	0	10	10	10	
					QIT system has a built-in root cause analysis tools which will help user conduct in-depth root
Responsible person conducts root cause analysis	0	60	30	15	cause analysis
Responsible Person sends CAR back to initiator	0	10	1	1	
Initiator reviews CAR	0	20	5	5	
Initiator closes CAR	0	10	1	1	
Total Minutes for a CAR	0	180	64	45	

4) Productivity Comparison

		Total Administrati			
Annual Cost for 300 CARs	W/O a system	Manual System	In-hours system	QIT System	Remark
Annual process time for complaints (100 complaints/year)	0	4000	1700	100	
Annual process time for nonconformance (500 nonconformance/year)	0	17500	5000	3000	
Annual process time for CAR (300 CARs)	0	54000	19200	13500	
QA summarize CAR Cost, Failure Mode, and other reports	0	11520	12	12	
Total Annual Administrative Time (minute)	0	87020	25912	16612	
					81% productivity improvement
					after moving from the manual
Total Annual Administrative Time (hour)	0	1450	432	277	system to QIT system

5) Total Cost Comparison

		Cost								
Cost Driver		W/O	a system	Ma	nual System	In-	hours system	Q	IT System	Remark
Administrative Cost (\$36/man hour)		\$	-	\$	52,212.00	\$	15,547.20	\$	9,967.20	
										Develop an in-house system will take two experienced engineers (80K/year) at least 3 months to develop and test the
First Year Software Cost		\$	-	\$	-	\$	40,000.00	\$	30,000.00	system.
Penalty cost for 100 complaints and 500 nonconformance		>	1 M?	\$	-	\$	-	\$	-	
Tota	al Cost	>	1 M?	\$	52,212.00	\$	55,547.20	\$		24% cost saving comparing to Manual System
				•		•				28% cost saving comparing to In-house system

6) Conclusion

1) A Complaints-nonconformance system is needed for any business who is concerning about customer, cost and productivity.

2) Using QIT System will improve your productivity by 80%.

3) Comparing to a manual system, using QIT System will save operating cost by 24% in the first year and 72% thereafter.

4) Using QIT System will help you improve customer loyalty and customer retention by reducing the response time on complaints.

5) Using QIT System will help you identify cost reduction opportunities. Most of our customers identified > \$ 1M improvement opportunities per year.