DMAIC - Root Cause Investigation Template

Investigation Ref #:	Lot No./s:		Date:	Place:	
Item Code:	Process/Area Name:		Participants (SMEs):		
Step 1: DEFINE (PROBLEM DEFI	NITION)	Step	1: DEFINE / MEASUR	E	
Use the following questions to define the done.	problem, its history and to outline any work	that has been Use the where	e below space to draw a be the deviation / incident dis	rief process map to UNDERSTAND activi scovered.	ties. Mark possible areas
What is the problem / incident? [Write what actually happened]					Example
When did it happen? [<i>Date and time</i>]					New Raw materials received
Where did it happen? [Where exactly on the process / machine, STEP – be specific]					Samples taken for QC
Who was working when the incident discovered? [Enter roles who found the incident]					All sample s meet No
What was done immediately to fix the problem? [<i>Include briefly the actions taken</i> <i>and by whom</i> ?]					QA review of C of A, documentation
How long did it take to fix the problem? [<i>Include lost time</i>]					
Has this happened before? [<i>Enter date, time, deviation ref.</i>]					C of A meet sners No
What actions were taken before? [<i>If known issue</i>]					New Raw material

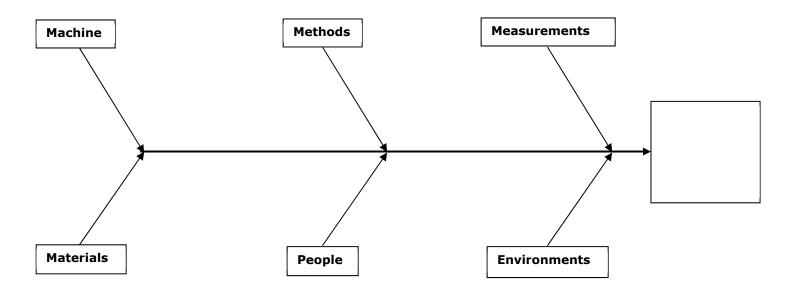
Step 3a: ANALYSIS (PROCESS ANALYSIS)

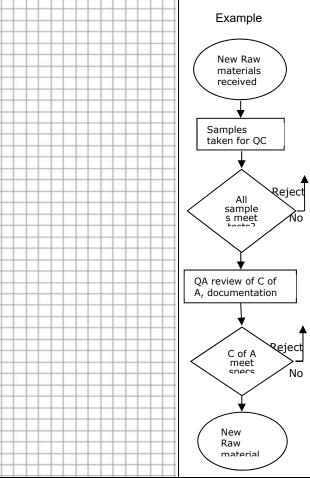
Think about the process according to the questions below.

Significant changes to the process [Have any change been made recently?]	
List all process controls [Are those effective in place?]	
Prepared By:	
Prepared by:	
Authorised by (Dept Manager)	

Step 3b: ANALYSIS (CAUSE & EFFECT)

Put the problem statement in the fish 'Head' and brainstorm possible causes.





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Step 3c: ANALYSIS (5 WHYS)

List the most likely causes from the fishbone, keep asking 'Why'? and drill down to the real root cause. * If found beneficial include a Pareto analysis separately to show the fewest (20%) most significant causes which have been causing the highest (80%) level of effects.

Potential Causes	WHY?	WHY?	WHY?	WHY?	WHY?

Step 4: IMPROVE (EVALUATE SOLUTIONS)

Step 5: IMPROVE / CONTROL (IMPLEMENT SOLUTIONS)

Put your solutions into the matrix based on benefit and difficulty.

Plan the implementation of the solutions in the matrix on the left.

Stars (high benefit; low difficulty)	Extra Effort needed (high benefit; high difficulty)	Solutions
Quick Wins (low benefit; low difficulty)	Forget It! (low benefit; high difficulty)	

Solution

Party Responsible	Priority	Target dates

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Revision history

Date	Replaces	Writer	Role	Change	Reason for change