

# DMAIC - Root Cause Investigation Template

Investigation Ref #:		Lot No./s:		Date:		Place:	
Item Code:		Process/Area Name:		Participants (SMEs):			

## Step 1: DEFINE (PROBLEM DEFINITION)

Use the following questions to define the problem, its history and to outline any work that has been done.

<b>What</b> is the problem / incident? <i>[Write what actually happened]</i>	
<b>When</b> did it happen? <i>[Date and time]</i>	
<b>Where</b> did it happen? <i>[Where exactly on the process / machine, STEP - be specific]</i>	
<b>Who</b> was working when the incident discovered? <i>[Enter roles who found the incident]</i>	
<b>What</b> was done immediately to fix the problem? <i>[Include briefly the actions taken and by whom?]</i>	
<b>How long</b> did it take to fix the problem? <i>[Include lost time]</i>	
<b>Has</b> this happened before? <i>[Enter date, time, deviation ref.]</i>	
<b>What actions</b> were taken before? <i>[If known issue]</i>	

## Step 1: DEFINE / MEASURE

Use the below space to draw a brief process map to UNDERSTAND activities. Mark possible areas where the deviation / incident discovered.

Use the grid below to draw a process map.

**Example**

```

graph TD
    A([New Raw materials received]) --> B[Samples taken for QC]
    B --> C{All sample s meet tests?}
    C -- No --> C
    C -- Yes --> D[QA review of C of A, documentation]
    D --> E{C of A meet snars}
    E -- No --> E
    E -- Yes --> F([New Raw material])
            
```

## Step 3a: ANALYSIS (PROCESS ANALYSIS)

Think about the process according to the questions below.

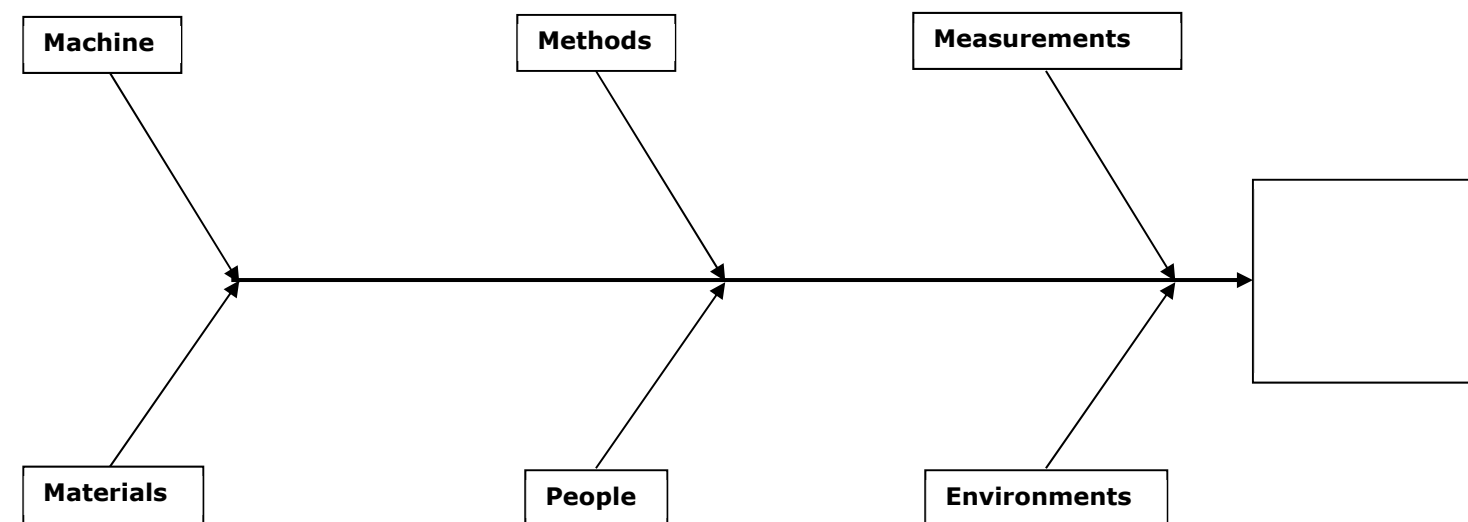
Significant changes to the process <i>[Have any change been made recently?]</i>	
List all process controls <i>[Are those effective in place?]</i>	

### 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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## Revision history

Date	Replaces	Writer	Role	Change	Reason for change