

Start Up Screen

Cause & Effect Relationships

Take Aways

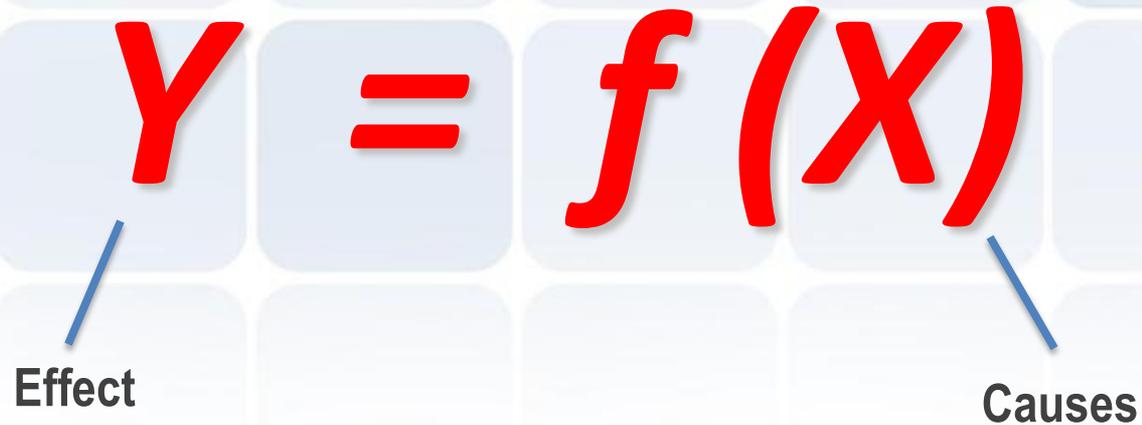


Cause & Effect

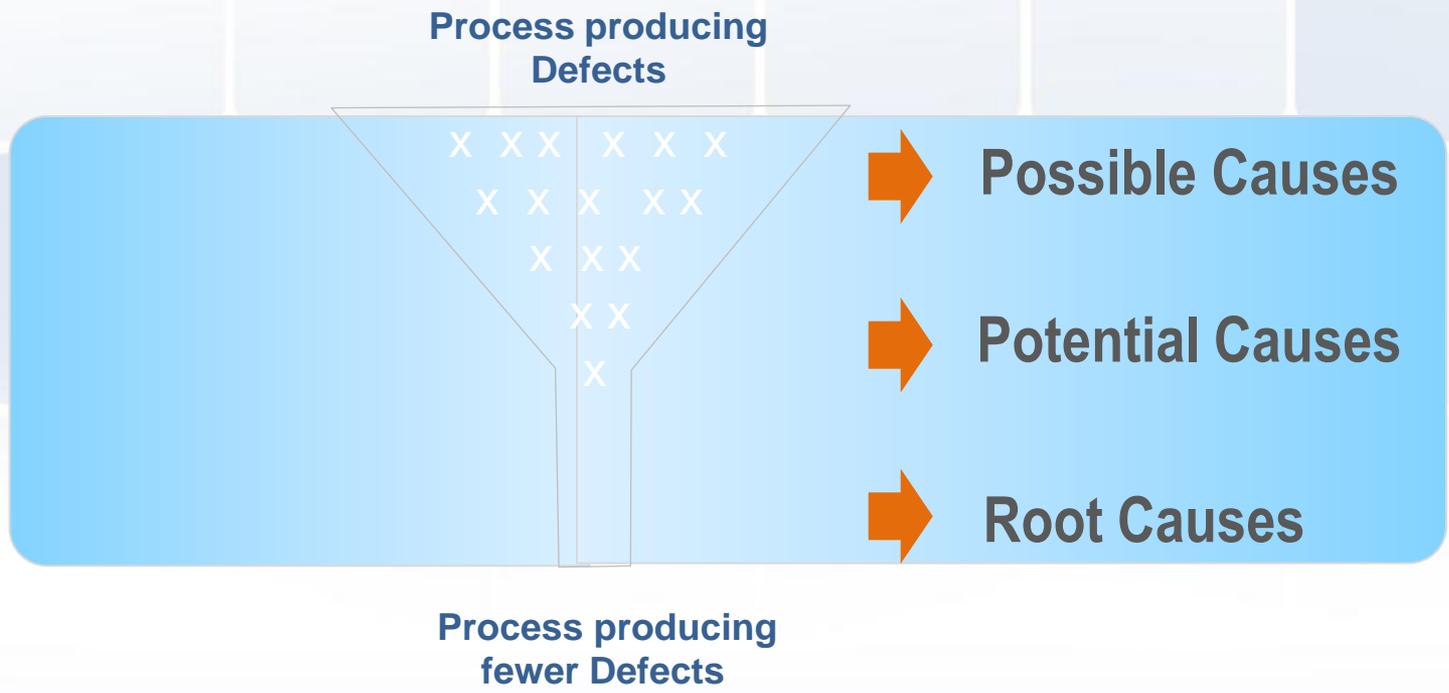
$$Y = f(X)$$

Effect

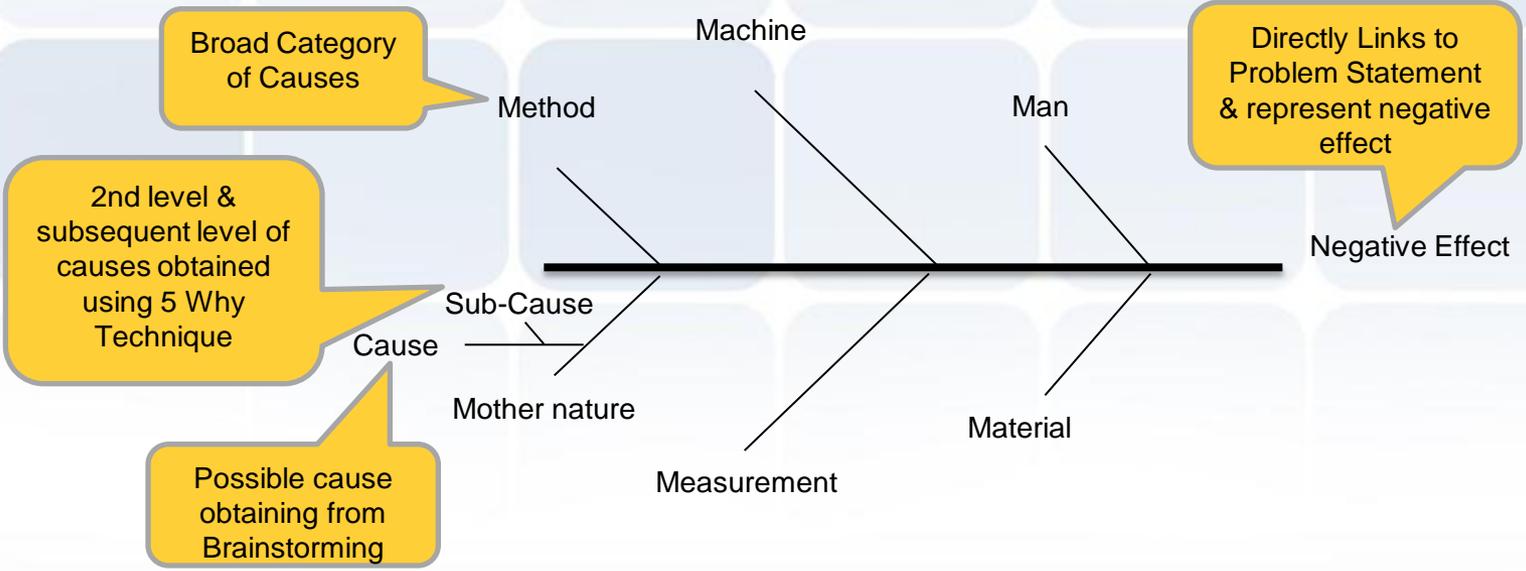
Causes



Funneling Down the Causes

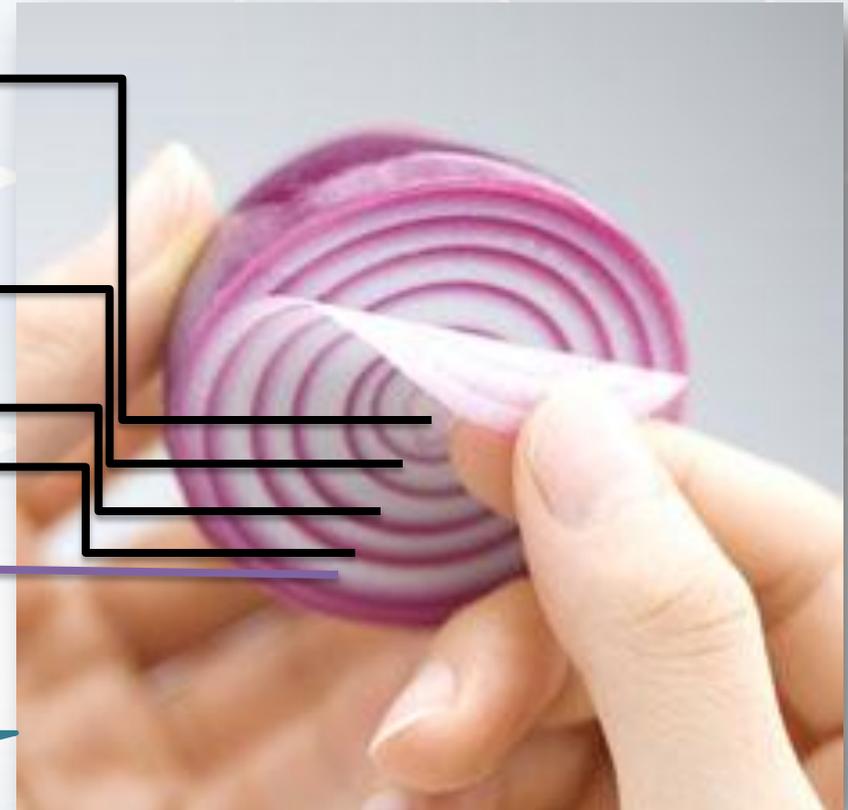


Structure of Cause & Effect Diagram



Peeling an Onion

- Lubrication Checking & Refilling frequency incorrect
- Lubrication level found very low
- Gearbox jammed
- Conveyor B/D
- Down Time High



What can we do to ensure timely lubrication?

Finding the reason or cause is like peeling an onion

Example of Cause & Effect Matrix

Xs (Causes)	Project CTQ	Secondary Metric	Secondary Metric	Overall Score
	Delivery Time	Defect Free Parts	Customer Complaints	
Customer Importance/Project Weightage -->	7	9	3	
Method				
Manufacturing Delay	9	3	9	117
Delay in QC	9	3	9	117
Incorrect Manufacturing Process	1	3	1	37
Man				
Full Capacity	3	1	3	39
High Process Time	1	3	1	37
Material				
High rejection in QC	3	9	9	129
Material quality bad	3	9	9	129
Machine				
Delay in scheduling	9	1	3	81
Machine break-down	1	1	1	19

Xs (Causes)
↓

← Y (Effect)

← Factors with high scores selected

Gemba Visit Cheat Sheet

With respect to the defect or root cause explore on the following lines:

<i>What</i> is being done	<i>Why</i> is it being done	<i>What Else</i> is being done
<i>Who</i> is doing it	<i>Why</i> are they doing it	<i>Who Else</i> could do it
<i>When</i> Are they doing it	<i>Why</i> then	<i>When Else</i> could it be done
<i>Where</i> Is it being done	<i>Why</i> there	<i>Where Else</i> could it be done
<i>How</i> is it being done	<i>Why</i> that way	<i>How Else</i> could it be done

Practical – Graphical – Analytical

Practical

Graphical

Analytical

Go to Gemba

Trend
Analysis

Multi-vary
Charts

Eyeballing

Regression

Hypothesis
Testing

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