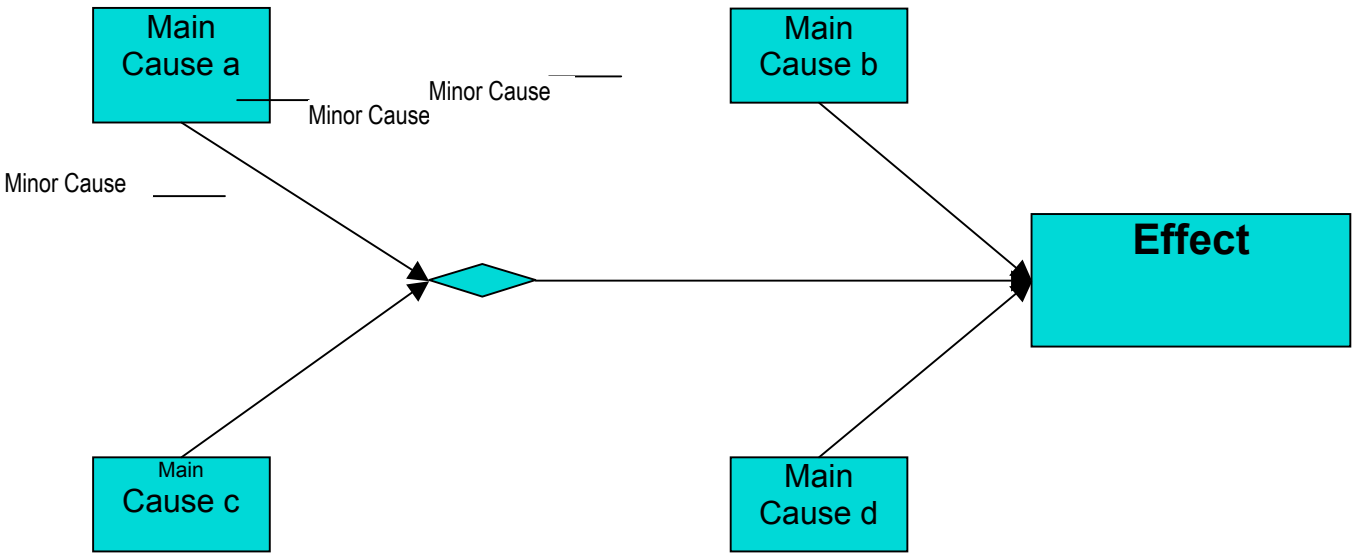
Cause and Effect Analysis

What is it?	What does it achieve?
• It's a diagram that demonstrates –the relationship between effects and the categories of their causes • The arrangement of the diagram looks like a fishbone it is therefore also called fish-bone diagram	Cause and Effect Analysis enables you to identify the possible cause affecting or creating a project or problem. A cause and effect diagram is a quick and visually effective way of exploring a problem or opportunity with some vigour
How to use it?	**When to use it?**
• Determine the Effect or Problem you would like to examine • Categorize the possible causes • Find subcategories • Describe the possible causes	• Root Cause Analysis • Problem Exploration • Defining a problem • Identifying possible data requirements • Developing objectives for solutions • Narrowing down causes

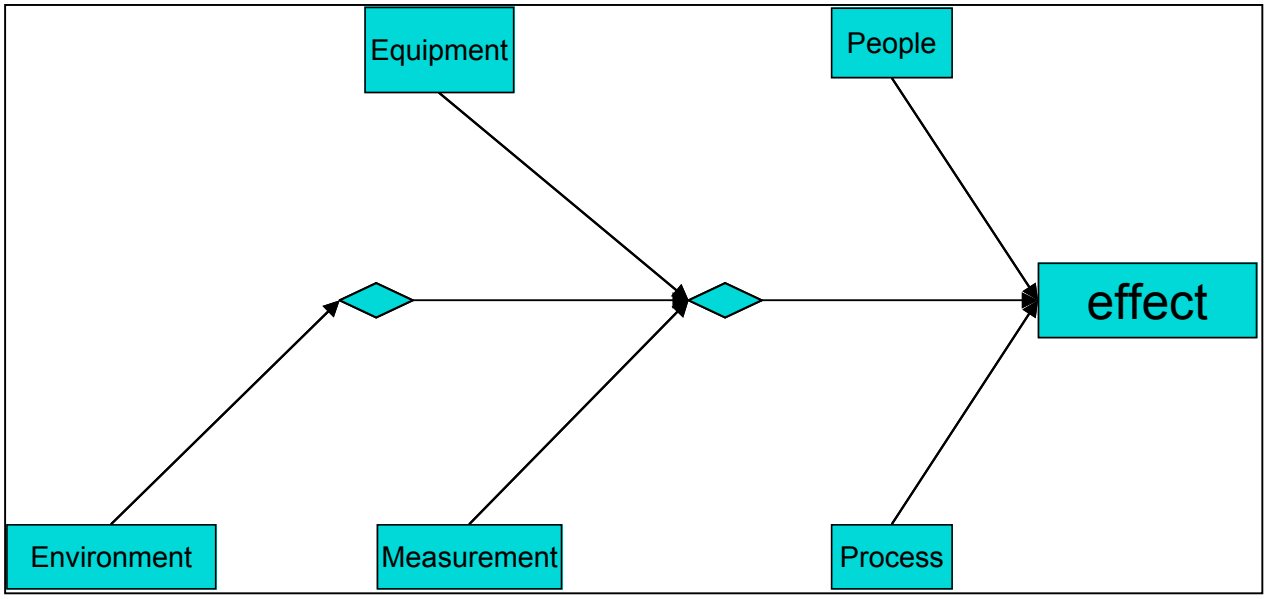
Diagram Layout



Suggested Headings

PEMP	FEMPEP	Your Own Choices
• People • Equipment • Materials • Processes	• Facilities • Equipment • Materials • People • Environment • Processes	

Using the Headings

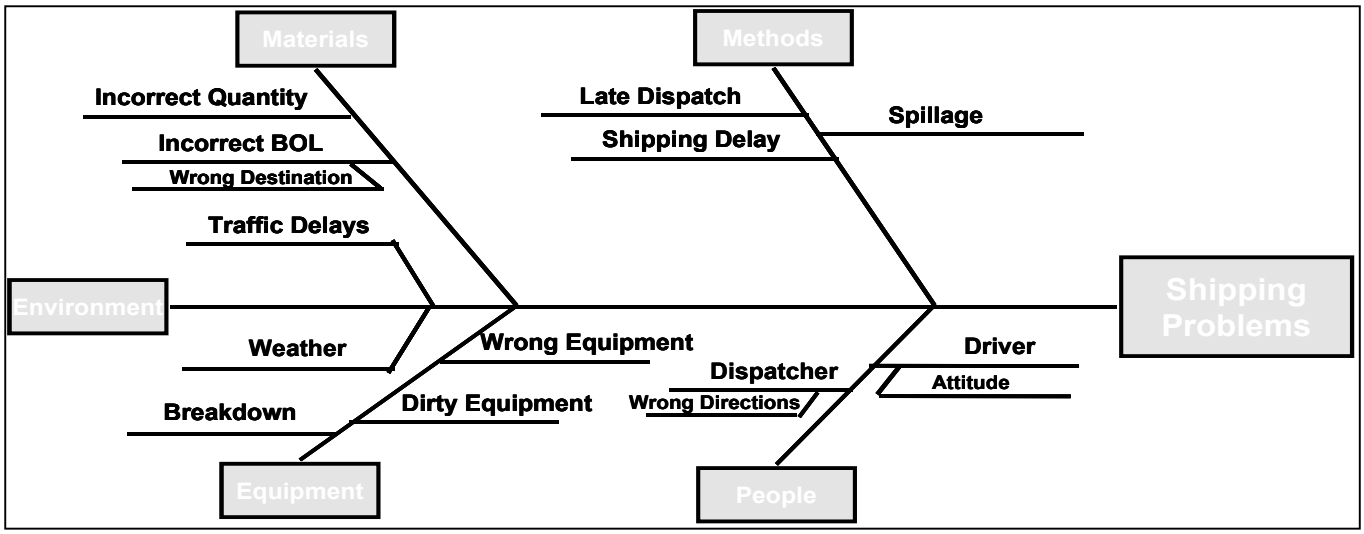


Diagramming Tip

Use paper landscape and put major cause boxes close to the edge to leave maximum room for the diagram

Example

–Allow team members to specify where ideas fit into the diagram. Use their words
–Clarify the meaning of each idea using the group to refine the ideas.



Look for Underlying Root Cause

Many factors can contribute to shipping problems	One problem out of spec is enough	We don't know what the specs are	There is no controlled process to ensure shipping happens correctly	We haven't mapped and don't manage our own processes