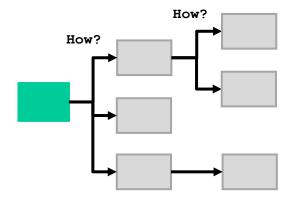
Continuous Improvement Toolkit

How-How Diagram



Managing **Deciding & Selecting** Planning & Project Management* **Pros and Cons PDPC** Risk Importance-Urgency Mapping RACI Matrix Stakeholder Analysis Break-even Analysis **RAID Logs FMEA** Cost Benefit Analysis **PEST** PERT/CPM **Activity Diagram** Force Field Analysis Fault Tree Analysis SWOT **Pugh Matrix** Project Charter Roadmaps Voting **Gantt Chart Decision Tree** Risk Assessment* TPN Analysis PDCA **Control Planning** Matrix Diagram Gap Analysis **OFD** Traffic Light Assessment Kaizen **Prioritization Matrix** Hoshin Kanri Kano Analysis **How-How Diagram KPIs** Lean Measures Paired Comparison Tree Diagram** Critical-to Tree Standard work **Identifying &** Capability Indices **OEE** Cause and Effect Matrix Pareto Analysis Simulation **TPM Implementing** RTY **MSA** Descriptive Statistics Confidence Intervals Understanding Mistake Proofing Solutions*** Cost of Quality **Cause & Effect** Probability Distributions ANOVA Pull Systems JIT Ergonomics Design of Experiments Work Balancing Reliability Analysis Graphical Analysis Hypothesis Testing Automation Regression Bottleneck Analysis Visual Management Scatter Plot Correlation **Understanding Run Charts** Multi-vari Charts Flow Performance 5 Whys Chi-Square Test 5S **Control Charts** Value Analysis Relationship Mapping* Benchmarking Fishbone Diagram **SMED** Waste Analysis TRIZ*** Sampling Focus groups Brainstorming Process Redesign Time Value Map Analogy **Interviews** SCAMPER*** IDEF0 Value Stream Mapping Nominal Group Technique Mind Mapping* Photography SIPOC **Check Sheets Measles Charts** Questionnaires Affinity Diagram Attribute Analysis Flow Process Chart Process Mapping Visioning **Flowcharting** Service Blueprints Lateral Thinking Data Critical Incident Technique Collection Creating Ideas** **Designing & Analyzing Processes Observations**

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- □ Once you have discovered why a problem occurs, you must then find a solution which will permanently fix the cause.
- ☐ In many cases, you don't even need to analyze the root causes of a problem.
- □ You just need to solve the problem right away.
- ☐ These low hanging fruit may be quick wins or larger projects that may involve capital expenditure.

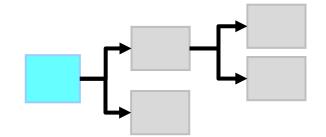
□ For example, after reviewing a process, you may have identified non-value added activities that you want to reduce or eliminate.

Other examples may include:

- Modify a procedure.
- Train employees.
- Improve management reports.
- Error proof a process.
- Change workplace layout.
- Infrastructure initiatives.



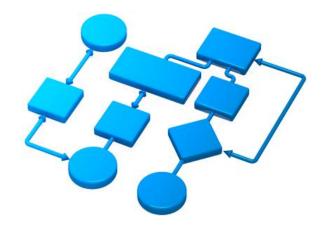
□ How-How Diagram is used when seeking a practical solution to a problem.



- ☐ It works by repeatedly asking: 'How can this be solved?'.
- □ It provides an effective structure for organizing and sequencing possible options as well as the rewards and risks associated with each option.
- □ At each stage, there might be multiple answers to the 'How' questions, and the result is a hierarchical tree-structure.

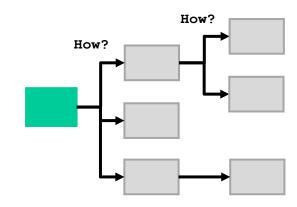
Approach:

- State the problem clearly then write it on a post-it card.
- □ Place it to the left of a large work area on the wall.
- □ Ask 'How can this problem be solved?'.
- ☐ Let the team write their answers on a post-it, then stick them up.
- Repeat this sequence of breaking down the problem once more.
- □ Keep asking "How" until you have no more answers or until you are satisfied with the improvement option.
- When you have completed the analysis, prioritize then select the key and applicable solutions to implement.



Tips:

- □ It is similar to the 5 Why's but a different question is asked (an adaptation of the root cause analysis).
- □ It is especially useful when creating or exploring a plan of action.
- ☐ It helps to break down the solution into more explicit elements.
- ☐ It shows a range of possible solutions all in one place.



Example:

