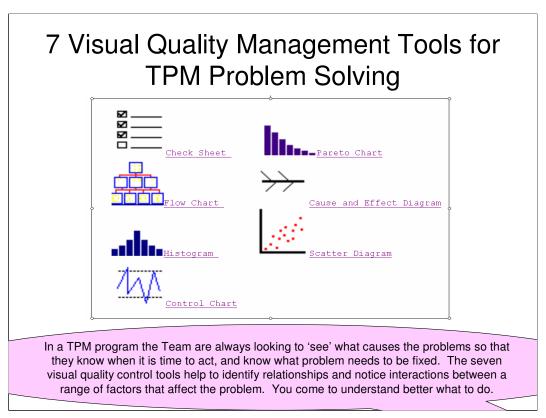
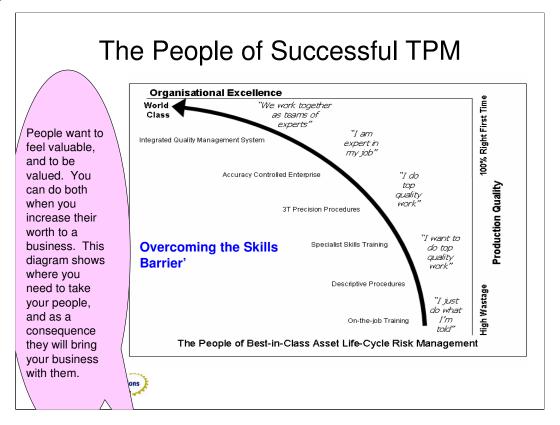


Calculation of Overall Equipment Effectiveness, (OEE) in TPM is the product of Equipment Availability, Quality performance (non-scrap or reworked product) and Speed (throughput), is not really a complete analysis Professor Sherwin advises. It does not take account of equipment costs and profits, and so it is not a good measure for comparing machines or systems, or for comparing the effect of equipment deterioration over time. OEE is only a part of the Life Cycle Risk Cost/Profit perspective. Within those inherent limitations the OEE concept is useful for monitoring equipment effectiveness and performance.

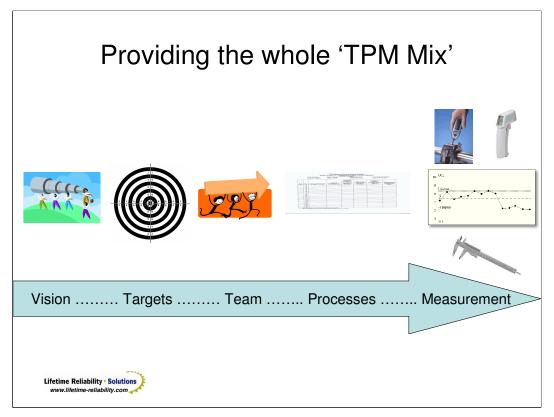


When solving a problem it is necessary to know what to do and what is, or is not, working. The 7 quality control tools shown on the slide let us view a problem in a number of ways to help pinpoint the issues. They are used by the TPM team to analyse the factors that have the greatest influence on a problem and to focus their efforts for the highest payback when fixing the problem.

## SAMPLE of Total Productive Maintenance Training Power Point sold by BIN95.com

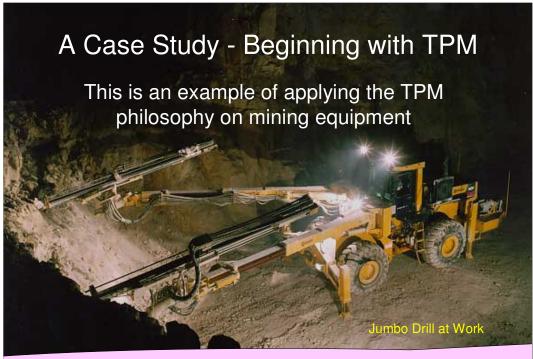


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Hopefully you are now more aware of what TPM will require of you and your organization. It has more to do with managing change and challenging mindsets than introducing a new way to run your operation. In time your production equipment will be managed by the people on the 'shopfloor', while managers will be more focused on developing new business opportunities. In order for this to happen the people now running your plant and equipment will need to learn how to run their machines well. More importantly they will need to learn how to improve the production equipment so it can perform at highest productivity and efficiency. TPM is a process to let people master the skill they need to do that.

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|   | 9 = 1110111019   | ement Req  |  |
|---|--|--|--|
| Pressure for change   | Clear Shared Vision  | Capacity (resources)   | Action (and performance)   |
| Policy and action plan in place Regular reviews Active commitment from top management Policy agreed and communicated o all staff Board level "champion" appointed | -High level of awareness and support at<br>all levels -Staff highly motivated -Representatives from all levels of<br>management chain involved in planning<br>process and drawing up action plan(s) -All staff given opportunity to make an<br>input | -Resources (staff and funding) routinely committed -Cost savings re-invested for further improvements  -Key staff working on plans and projectsStaffing and funding needs identified and resources becoming available  -"Champion" appointed at middle management level (to support the Board's "Champion")Training & development needs assessment | Action being taken and embedded throughout the organisation Monitoring and reporting of progress Wider engagement across the organisation Low-cost' and more 'no-cost' measures implemented Commencement of action at some levels of the organisation. Some 'no-cost' measures implemented |
| You and I are the 'ke   | ne middle management 'cl<br>y staff'. The 'no cost' me   | asures are the 'early wins   | s' in Bill's case study.   |
|   | We'll only get Walt's sunn   | ort if he can see the ben  | etit of TPM.   |

The bullet points from the 'Change Management Matrix' become the requirements and actions to be undertaken and achieved as the plan to make TPM part of normal business practice unfolds.