

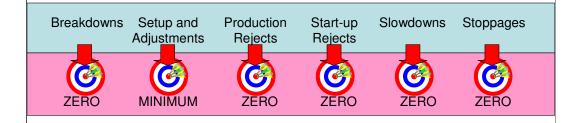
Calculation of Overall Equipment Effectiveness, (OEE) in TPM is the product of Equipment Availability, Quality performance (non-scrap or reworked product) and Speed (throughput), is not really a complete analysis Professor Sherwin advises. It does not take account of equipment costs and profits, and 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.

Total Productive Maintenance is ... operator driven reliability:

The Operators' Creed of TPM -

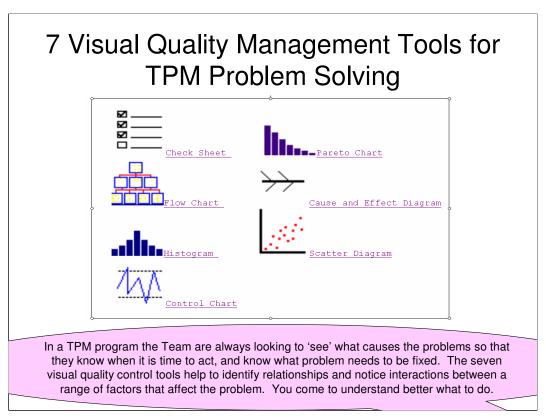
- · Keep it clean
- · Keep it lubricated
- Monitor for degradation
- Maintain it before production is affected
- Simplify and improve it





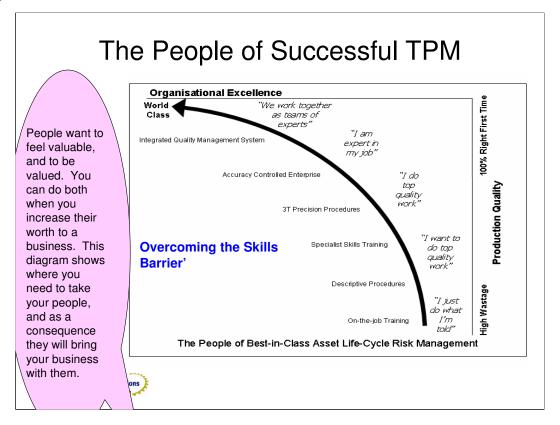
Operators are likely to recognise before anyone else that a machine needs to be replaced or overhauled, or a system modified.

David Sherwin, Maintenance and Reliability Professor, tells us that machine deterioration is slowed under TPM by the primary care given to the machine by its operator. The operator can delay the need for maintenance by focusing on key equipment health factors. TPM does not exclude Preventive Maintenance (PM) by technicians, in fact it is required, but there is no specific strategy for it within TPM, and it is almost bound to be neglected if the factory gets too busy, which is just when it is most needed. To address this risk the PM work is planned and scheduled by the maintenance group.

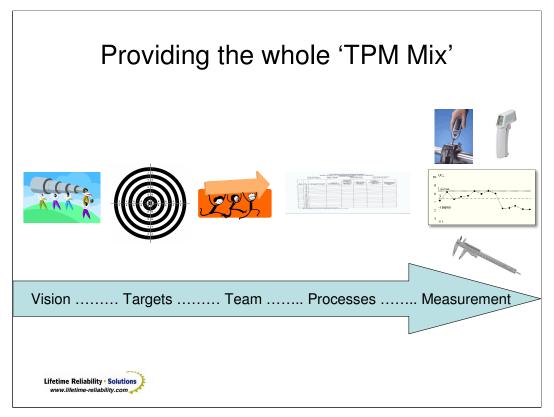


When solving a problem it is necessary to know what to do and what is, or is not, working. The 7 quality control tools shown on the slide let us view a problem in a number of ways to help pinpoint the issues. They are used by the TPM team to analyse the factors that have the greatest influence on a problem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

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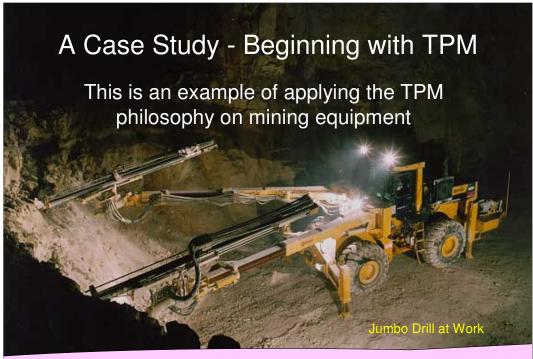


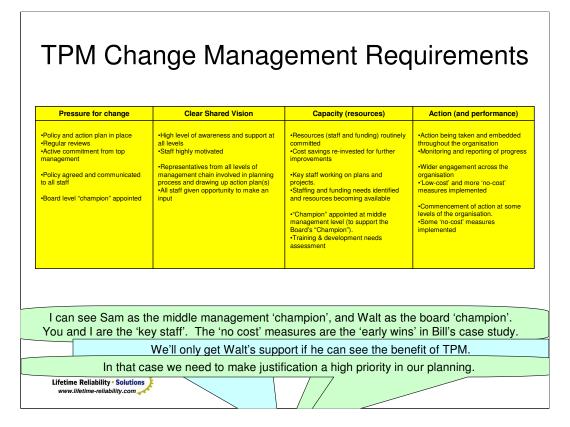
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Hopefully you are now more aware of what TPM will require of you and your organization. It has more to do with managing change and challenging mindsets than introducing a new way to run your operation. In time your production equipment will be managed 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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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.

