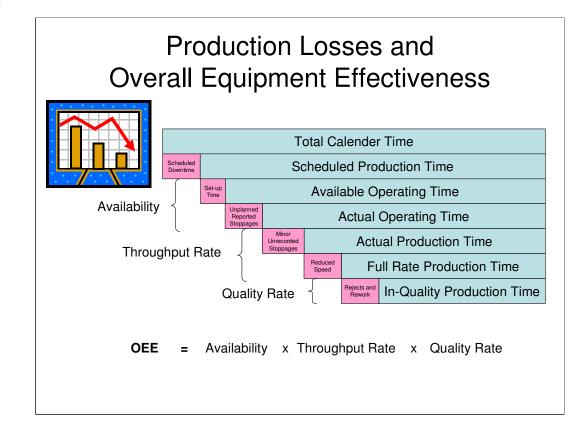
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Calculation of Overall Equipment Effectiveness, (OEE) in TPM is the product of Equipment Availability, Quality performance (non-scrap or reworked product) and Speed (throughput), is not really a complete analysis Professor Sherwin advises. It does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

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# 7 Visual Quality Management Tools for TPM Problem Solving

Cause and Effect Diagram

Scatter Diagram

Chart

stogram

Control Chart

In a TPM program the Team are always looking to 'see' what causes the problems so that they know when it is time to act, and know what problem needs to be fixed. The seven visual quality control tools help to identify relationships and notice interactions between a range of factors that affect the problem. You come to understand better what to do.

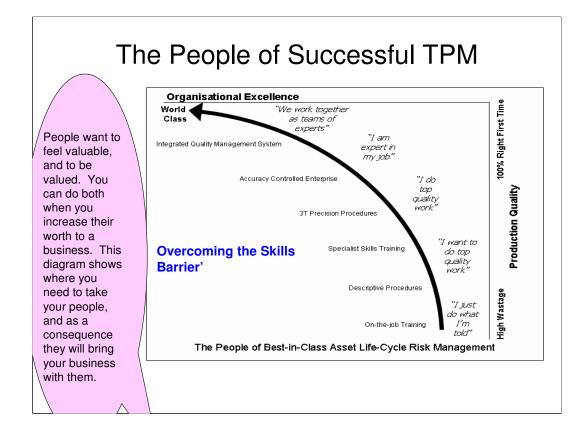
When solving a problem it is necessary to know what to do and what is, or is not, working. The 7 quality control tools shown on the slide let us view a problem in a number of ways to help pinpoint the issues. They are used by the TPM team to analyse the factors that have the greatest influence on a problem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

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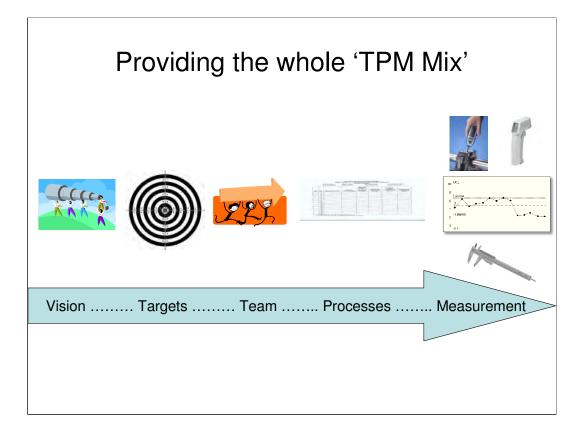


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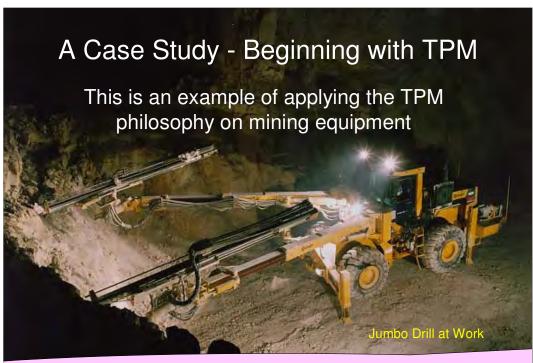
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Hopefully you are now more aware of what TPM will require of you and your organization. It has more to do with managing change and challenging mindsets than introducing a new way to run your operation. In time your production equipment will be managed 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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Because TPM focuses on identifying the root causes of poor equipment performance its purpose of improving equipment operation is universally applicable across all machinery.

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# **TPM Change Management Requirements**

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     tail staff     *Board level "champion" appointed	<ul> <li>High level of awareness and support at all levels</li> <li>Staff highly motivated</li> <li>Representatives from all levels of management chain involved in planning process and drawing up action plann(s)</li> <li>All staff given opportunity to make an input</li> </ul>	Resources (staff and funding) routinely committed     Cost savings re-invested for further improvements     Key staff working on plans and projects.     Staffing and funding needs identified and resources becoming available     "Champion" appointed at middle management level (to support the Board's "Champion").     Training & development needs assessment	<ul> <li>Action being taken and embedded throughout the organisation</li> <li>Monitoring and reporting of progress</li> <li>Wider engagement across the organisation</li> <li>Low-cost' and more 'no-cost' measures implemented</li> <li>Commencement of action at some levels of the organisation.</li> <li>Some 'no-cost' measures implemented</li> </ul>
	ne middle management 'c	hampion', and Walt as the	e board 'champion'.
	ey staff'. The 'no cost' mea We'll only get Walt's supp	asures are the 'early wins	•
You and I are the 'ke	ey staff'. The 'no cost' me	asures are the 'early wins port if he can see the ben	efit 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.

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