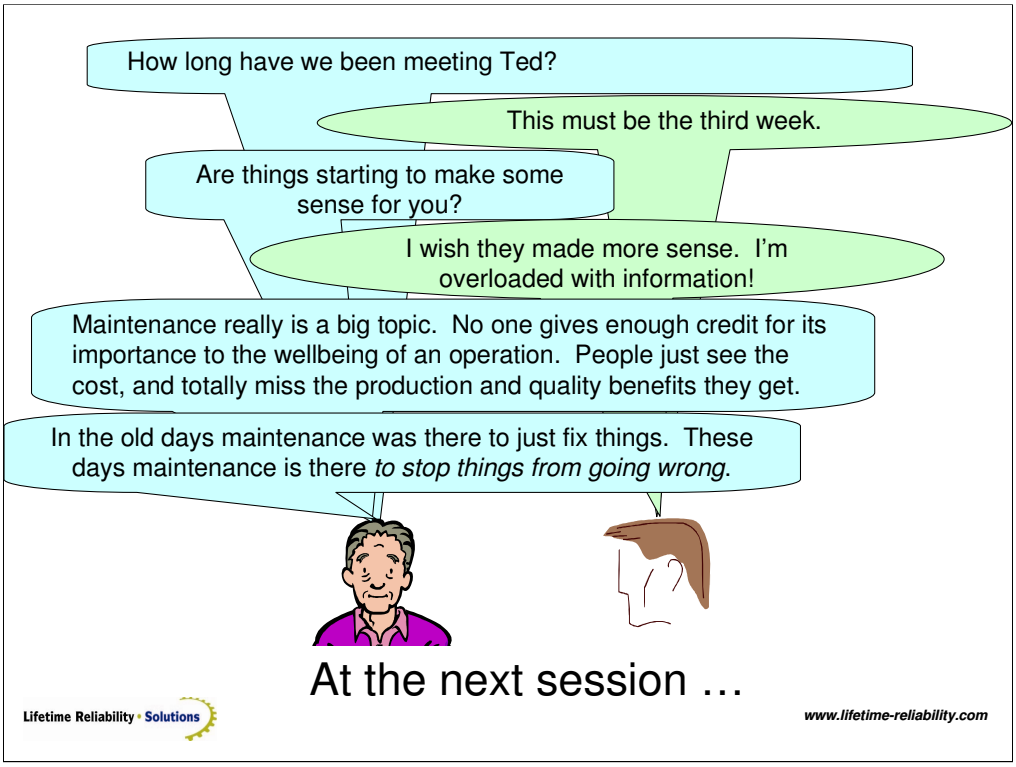
How long have we been meeting Ted?
This must be the third week.
Are things starting to make some sense for you?
I wish they made more sense. I'm overloaded with information!
Maintenance really is a big topic. No one gives enough credit for its importance to the wellbeing of an operation. People just see the cost, and totally miss the production and quality benefits they get.
In the old days maintenance was there to just fix things. These days maintenance is there *to stop things from going wrong*.
At the next session …
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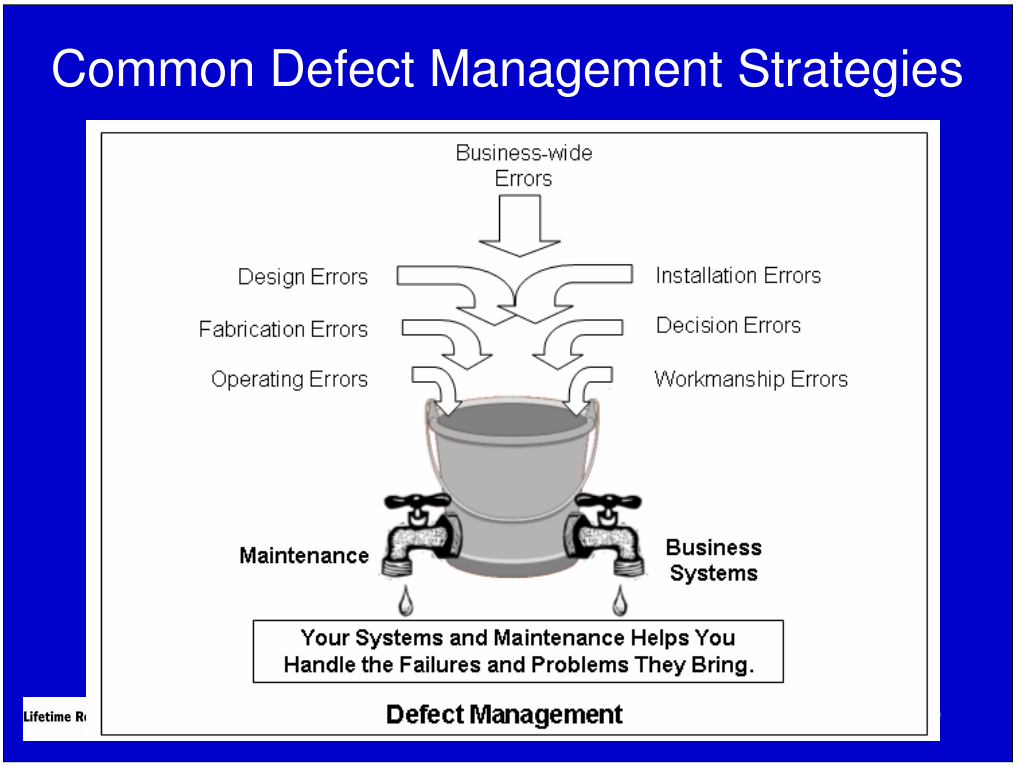


In response to the many problems, a business installs systems to handle them. These become the 'way we do things around here' and are seen as normal behaviour. In reality the business systems are correcting errors, defects and failures that should never have happened.

Use Basic Statistical Control

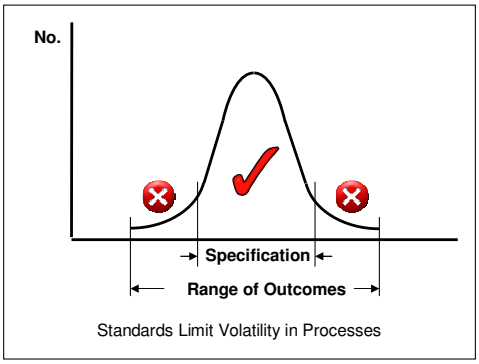
('Six Sigma' method)

You only need to understand the concepts of an in-control process.

Process Disruptions Causes Variation in Outcome

Measure your processes to know if they are in control and are capable.

This requires use of basic statistical quality control methods.



Standards Limit Volatility in Processes

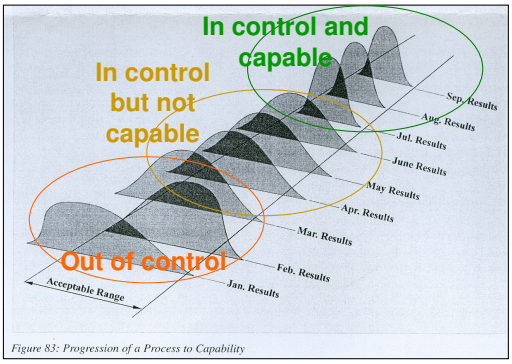


Figure 83: Progression of a Process to Capability

*Your processes (plant **and human**) need to be in control **and** capable.*

The reality is that the universe we live in is probabilistic. The only constraint is the physics of the situation (at 0C water can be ice, liquid or vapour – which one a particular molecule will be is probabilistic). This means a variety of outcomes are possible from any situation, unless influence is brought to bear in deciding what situation is wanted.

Variability in human managed processes is controlled by defining which of the possible outcomes from each step in a process are the desirable ones. By selecting what is desirable and specifying it, the relevant processes are directed through a series of steps that, if done correctly, will produce a known outcome. Hence we get what we want by making sure the inputs into a process are correct and that the process behaves correctly.

Visual Management in All Occasions

Make things visual for operators and maintainers if you want them to understand what is happening

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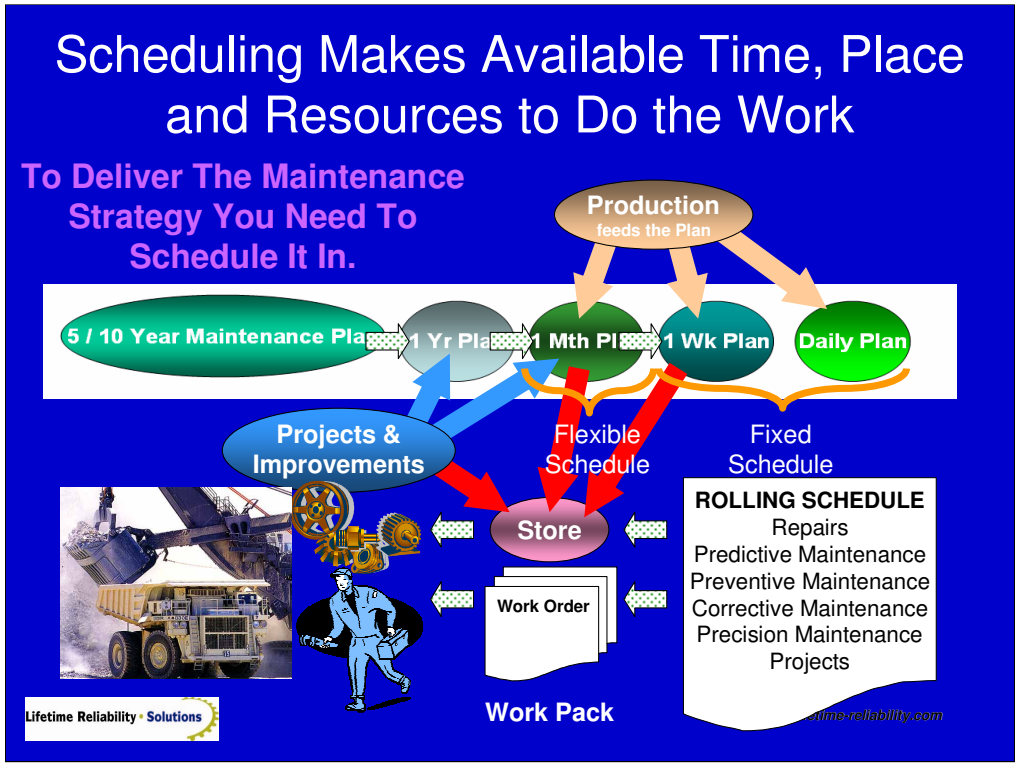
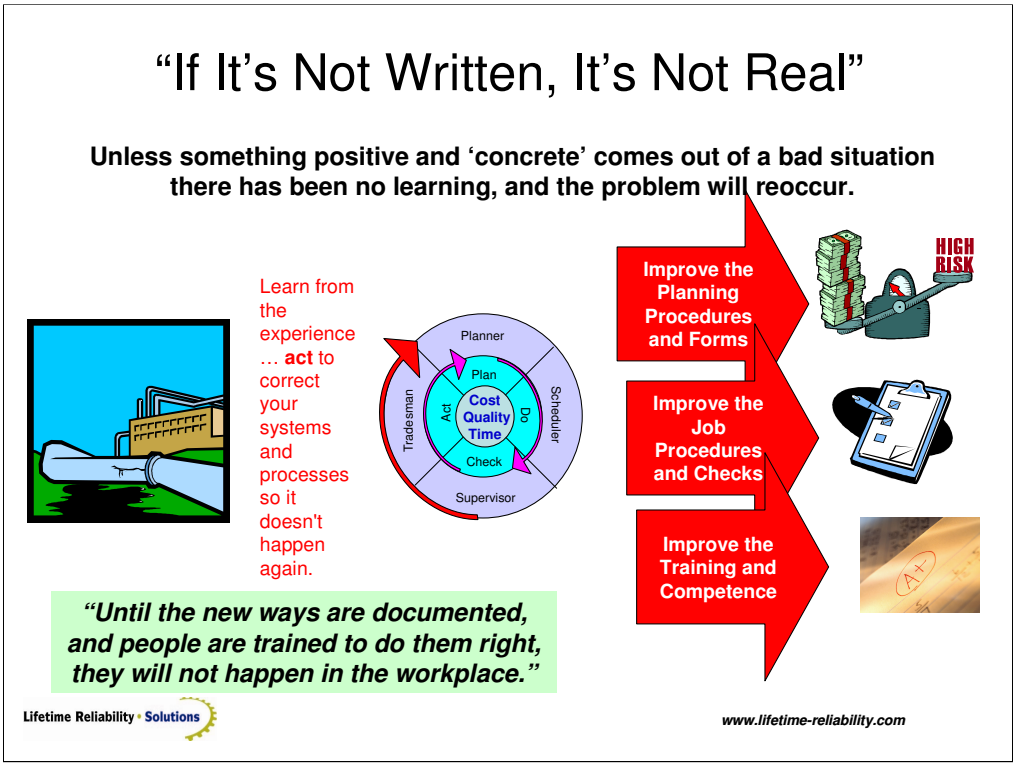
Visual management is used to communicate progress and needs to be out in the workplace for all to see.



Scheduling is the process of turning the maintenance strategy, the production requirements and the improvement plans of the business, into a list of work to be performed by certain dates and times using the available resources.

The further out in time the work is planned the more flexible is the schedule. Only lock-in the work for the immediate week, on a rolling day basis. That means if today is Monday, then the flowing Monday's scheduled work is set and locked-in-place, but the Tuesday work is adjustable. This is the only way to get high scheduled compliance performance.



Unless something positive and 'concrete' comes out of a bad situation there has been no learning and the problem will reoccur. It cannot be otherwise, until action is taken to make the necessary changes permanent. These changes need to become improved ways of doing the planning and performing the maintenance. Until the new ways are documented, and people are trained to do them right, they are not what will happen in the workplace.

Maintenance Planning Course Key Issues

1. Aim for efficient & effective use of maintainers
2. Poor planning/scheduling means poor performance
3. Equipment reliability is what maintenance offers
4. All work is a series process that carries big risks
5. Build work task accuracy into the SOPs
6. Production & Maintenance partnership works best

What insights will you take away? Can you share them with us?

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