

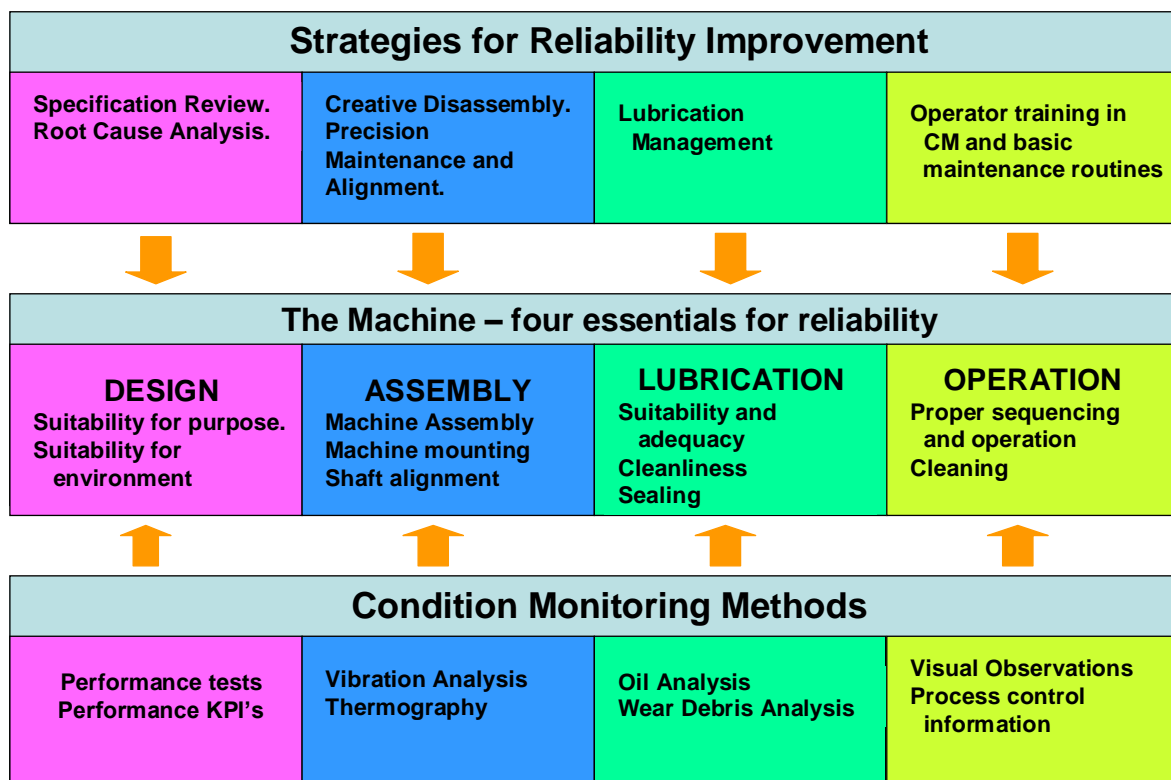
Maintenance and Reliability Like They Should Be Done!

What can a 25-year veteran of condition monitoring tell you about how to do world-class maintenance and get high equipment reliability with the right condition monitoring strategy?

First a little background. Max started his vibration analysis monitoring company back in the late 1970's¹. His company developed expertise and new condition monitoring techniques over many years. They monitored and reported on a large range and number of machines, and worked for numerous companies. He and his people were the recognised experts in vibration monitoring and machine vibration control. Over the years he saw, did and tested a lot of things to fix equipment vibration problems. Often he was doing cutting-edge analysis and coming up with innovative answers. Max retired just a few years back. He sold his vibration analysis business to a large national maintenance services group and now day's he works with his son in-law helping to grow the Vitech condition monitoring business.

After Max retired he was asked by an industrial organization to come up with the maintenance strategy he would recommend to deliver high plant and equipment reliability and availability. This is what he came up with based on his 25 years of experience using condition monitoring for improving plant and equipment reliability. I think it's one of the most simple and effective maintenance strategies available today. I thank Max and Vitech for letting me publish it.

Condition Monitoring Strategy



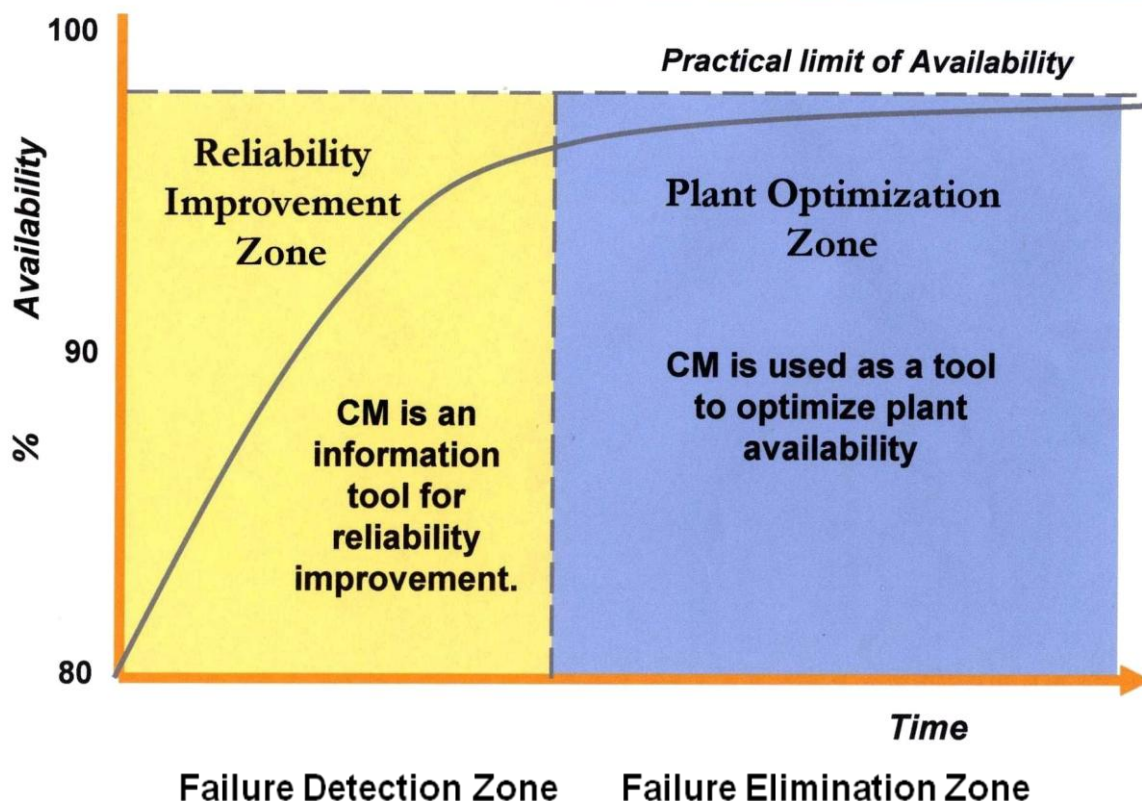
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¹ Max Wishaw MIEAust CPEng was one of the pioneer consultants in condition monitoring in Australia. He established Wishaw Engineering Services in Perth, WA in August 1977 to provide condition monitoring and vibration analysis services to the process and mining industries and public utilities. The business grew to be one of the major CM service providers with offices in three States and a staff of 45 engineers and technicians. In 1999 Max retired from what then became AMEC Technical Services. He has continued his involvement in the technology working as Technical Manager with Vitech Asia-Pacific Pty Ltd, a business directed nationally by his son-in-law, Kelvin Wright.

It presents a complete life-cycle asset management approach to increasing machinery reliability. It provides focus on the important factors to do well if you want high equipment reliability. It recognises that successful maintenance management is interconnected across the equipment life-cycle. It needs proper design selection, world-class operational practices and best-practice maintenance strategy and precision maintenance skills. It indicates in a snap-shot what must be done in today's industrial plants to achieve maintenance excellence and world class availability.

Max also went on to explain how to use condition monitoring to get higher equipment reliability and higher plant availability. The graph below is what he said to do.

Condition Monitoring Strategy



Again it is simplicity itself. Condition monitoring is a tool to gather the information you need to identify impending failures, and when used immediately after start-up to test the quality of repair work, it is a tool to focus your efforts in eliminating the cause of your plant and equipment failures and increase machinery reliability. In time, and with experience of learning how to do best-quality workmanship, you and your people improve the machines and equipment and deliver world-class plant availability.

Mike Sodalini

www.lifetime-reliability.com

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