

WHAT IS CONDITION MONITORING? A series of activities

to know at any point in time

the condition of ...

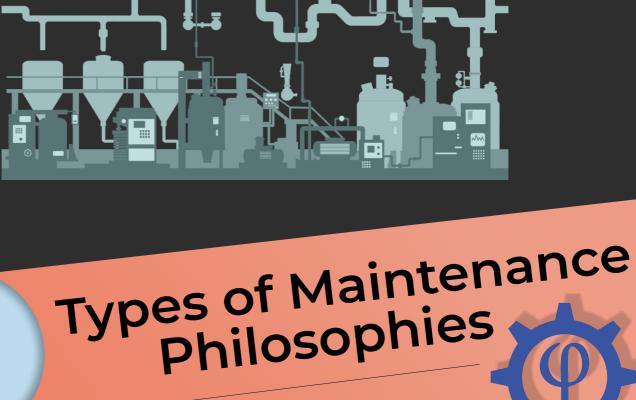
A series of machines

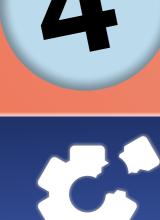
A single, specific machine





A complete process





Fix it when it breaks The most costly type of maintenance and condition monitoring can reduce the amount of reactive maintenance that is performed.

REACTIVE MAINTENANCE



Condition monitoring can provide information so these time-based activities can be optimized. It promotes more of the, "If it isn't broken, don't mess with it" mindset.

PREVENTIVE MAINTENANCE

Perform maintenance on a time schedule

PREDICTIVE MAINTENANCE Fix it before it breaks



(a.k.a. Condition Monitoring).

of companies are completely unaware

PROACTIVE MAINTENANCE Engineer out the failure modes

The only way to understand what the failure modes are and how fast they are progressing is to monitor various parameters on the machine





on Plant Maintenance Practices **INCREASE IN LESS**

that use the appropriate condition Such companies include food and beverage monitoring solution will keep their manufacturers and pharmaceutical. Effective machines in top form, thereby ensuring condition monitoring solutions that production doesn't stop due to can strengthen continuous unforeseen machinery breakdowns production, significantly and that the company doesn't record



MACHINE UPTIME

or system is performing its expected functions without any hitches. Businesses

Machine uptime refers to when a machine

and address them before they happen. This makes the company's effort towards machine maintenance more efficient since engineers know the precise spots to review and repair. **IMPROVE**

MAINTENANCE

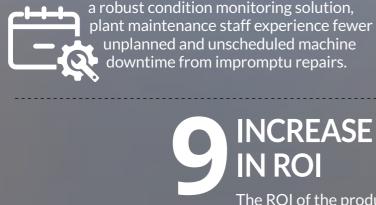
PLANNING

helps identify the failure modes of a machine



Maintenance planning refers to the schedule

UNSCHEDULED MAINTENANCE Unscheduled maintenance is synonymous with unplanned expenses. Certain equipment costs hundreds of thousands to repair, and when it breaks down unexpectedly, it negatively affects a company's finances. With



WASTE

minimizing waste.

INCREASED PRODUCTION Often, production levels in a plant are not optimized due to the amount of machine failures and the corresponding reactive maintenance performed. With condition monitoring systems, companies can avoid these breakdowns and, by doing so,

Some companies use perishable raw materials for their productions, where a breakdown in

production for a day or two leads to spoilage.

MACHINERY LIFE Maintenance is essential to machine longevity. A piece of equipment that is not maintained will reach its end of life faster than one that is regularly maintained. These maintenance

LONGER

increase production.

activities are not random. They are carried out according to the condition monitoring analysis, when performed effectively, will address the most worn out and damaged components. **INCREASE IN OVERALL EQUIPMENT EFFECTIVENESS (OEE)**

Overall equipment effectiveness refers to the

measure of the effectiveness of a

manufacturing process relative to its

maximum potential during the actual schedule (i.e., Are you getting the best out of a specific manufacturing process?) Thanks to less waste and increased production, businesses can enjoy better OEE.

The ROI of the production department depends on the availability, quality, and performance of man and machine. While the first factor (employees) is also within the scope of condition monitoring from the

hour



analysis perspective, the second is greatly improved by the system. A functioning condition monitoring solution helps increase machine uptime, improve maintenance rounds, avoid waste, increase production, and reduce how often you buy new equipment. — leading to a significant increase in production ROI.

In 2016 downtime cost an average of In the petrochemical industry downtime cost is estimated

¹ Vanson Bourne Report / Study; ² Aberdeen Group Study; ³ Aberdeen Group Study

otîme

CONTACT US

To learn more about how your business can benefit from a powerful condition monitoring solution.

SOURCES

Uptime means more. UPTIME-SOLUTIONS.US • INFO@UPTIME-SOLUTIONS.US • 904.587.5879