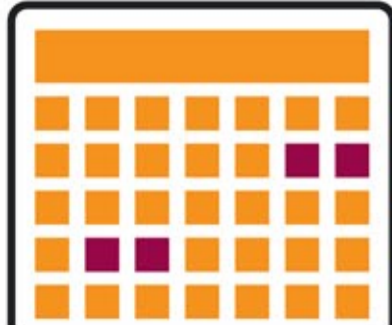


Quantifying the Value of Predictive Maintenance

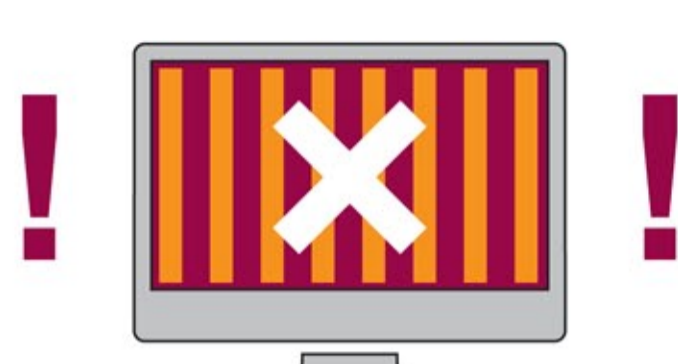
In the manufacturing world, focusing on improving asset utilization and capacity is high on the list of meaningful goals. Effective and efficient assets help to reduce downtime, improve quality, and shorten production lead time. How maintenance is managed plays a major role in achieving such results.

2 Types of Downtime:



Scheduled

Maintaining and cleaning equipment, installing software updates, etc.



Unscheduled

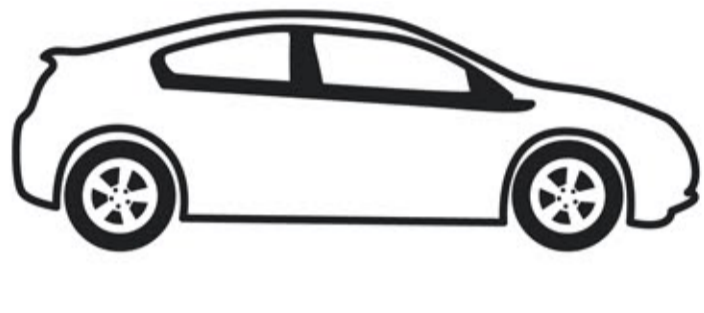
Repairing broken machines or machines that have stopped because of an earlier bottleneck in production.

Poorly Maintained Equipment Disrupts Operations

They stop production and waste time as maintenance technicians work on correcting the problem. They are also very costly, as repairs account for 15% of total expenses.¹



Industry Examples



Downtime in automobile assembly lines could cost **\$10,000 per minute.**²

Downtime at a large natural gas power plant costs upwards of **\$11,000 per hour or \$264,000 per day.**⁵



Downtime due to machinery corrosion in the food industry costs upwards of **\$2.1 billion per year.**⁴

Predictive Maintenance



Predictive Maintenance (PdM) helps to determine the condition of the operating equipment in order to predict when maintenance should be performed.

Does PdM Really Work?



Correctly implemented PdM allows ideal scheduling of corrective maintenance to prevent unexpected equipment failures. It reduces unplanned downtime, repair costs, equipment failures, and asset deterioration.

Does PdM Save Money?

Not only is PdM 40% less expensive than a reactive approach, but for every \$1 spent to improve equipment reliability, there is a \$5–10 return to the bottom line.¹



The Demand for Manufacturing Operations Software

World-class manufacturers can use Predictive Maintenance to ensure maximum reliability of assets, taking proactive steps to reduce unscheduled equipment downtime and other avoidable failures.



The most effective approach is to use operations management software to monitor equipment conditions in real time, compare data with recommended specifications, assess equipment output, and use analytics to effectively manage maintenance activities.



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