System Preventive Maintenance

System Preventive Maintenance

- Preventive maintenance is the act of performing regularly scheduled maintenance activities to help prevent unexpected failures in the future.
- Put simply, it’s about fixing things before they break.
- It is a proactive approach to managing technology infrastructure to identify and fix potential issues before they disrupt business operations.
- It involves regularly scheduled tasks, checks, and updates to extend the life of the system and reduce downtime

How does preventative maintenance work?

- Through **machine learning**, **operational data analytics,** and **predictive asset health monitoring**, engineers can optimize maintenance and reduce reliability risks to plant or business operations.
- Software designed to support preventive maintenance helps produce stable operations, ensure compliance with warranties, and resolve issues impacting production—before they happen.
- Some examples of IT preventive maintenance tasks include: **software updates**, **hardware inspections**, **security assessments**, and **data backups**

Types of Preventive Maintenance

1. Usage-based preventive maintenance

- Usage-based preventive maintenance is triggered by the actual utilization of an asset.
- This type of maintenance takes into account the average daily usage or exposure to environmental conditions of an asset and uses it to forecast a due date for a future inspection or maintenance task.

Types of Preventive Maintenance

2. Calendar/time-based preventive maintenance

- Calendar/time-based preventive maintenance occurs at a scheduled time, based on a calendar interval.
- The maintenance action is triggered when the due date approaches and necessary work orders have been created.

Types of Preventive Maintenance

3. Predictive maintenance

- Predictive maintenance is designed to schedule corrective maintenance actions before a failure occurs.
- The team needs to first determine the condition of the equipment in order to estimate when maintenance should be performed.
- Then maintenance tasks are scheduled to prevent unexpected equipment failures.

Types of Preventive Maintenance

4. Prescriptive maintenance

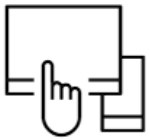
- Prescriptive maintenance doesn’t just show that failure is going to happen and when, but also why it’s happening.
- This type of maintenance helps analyze and determine different options and potential outcomes, in order to mitigate any risk to the operation.

8 Best Preventive Maintenance Practices to follow

8 Best Preventive Maintenance Practices to follow

1. Prioritize Your Assets
2. Stay on Schedule
3. Track Inventory
4. Avoid Over-Maintenance
5. Embrace Technology
6. Train Your Team
7. Conduct Regular Inspections
8. Keep Comprehensive Records

Benefits of preventive maintenance

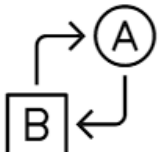


1. Extends asset life

- Systematically schedule maintenance and inspections to ensure assets achieve their full lifecycle and warranties are kept up to date.

2. Reduces maintenance

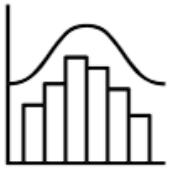
- Manage planned and unplanned maintenance, inventory, and spare parts costs. Better insight into operations and assets helps make a significant reduction in maintenance costs.



3. Boosts productivity

- A well organized labor force is a more productive one

Benefits of preventive maintenance



4. Reduces unplanned downtime

- Identify repairs earlier in the asset lifecycle for always-on operations that reduce downtime and optimize production

IT preventive maintenance precheck

Steps in implementing IT precheck

1. **Documentation overview:** Outline if IT assets' hardware specifications, software versions, and warranty status are updated. Also, list the maintenance history to find any potential issues or recurring problems.
2. **System backup:** Ensure the system is backed up to prevent data loss if the hard disk, server, or other data storage devices fail during preventive maintenance.
3. **Delegate duties to the team:** Enlist the team members, managers, and IT staff who will be instrumental in carrying out the preventive maintenance task.

IT preventive maintenance precheck

Steps in implementing IT precheck

4. **Set expectations:** Create an expectation that directly defines what is expected of the maintenance. This may include making costly repairs, replacing a part, or developing a long-term strategy for the asset.
5. **List down equipment to be repaired:** Make a list of IT assets that will go under maintenance, and prioritize hefty and critical equipment that is expected to fail quickly.
6. **Set access notifications and permissions:** Notify the workforce about the preventive maintenance to be carried out. The maintenance team responsible should also have the necessary permissions.

IT preventive maintenance precheck

Steps in implementing IT precheck

7. **Create your own documentation:** After skimming through the manufacturer documentation of IT assets, source essential details. Also, enlist your steps while implementing the maintenance and store them in a repository where they can be quickly accessed by the te

IT preventive maintenance precheck

Steps in implementing IT precheck

7. **Create your own documentation:** After skimming through the manufacturer documentation of IT assets, source essential details. Also, enlist your steps while implementing the maintenance and store them in a repository where they can be quickly accessed by the te