

## Technical Article-16 MAINTENANCE FUNCTIONS

### WHAT IS MAINTENANCE?

- ❖ It guarantees all production-related machinery & equipment.
- ❖ It makes provisions for consumables & replacement parts for maintenance.
- ❖ In the industrial sector like function tests, maintaining, repairing, or replacing relevant devices, equipment & machinery processed.



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### OBJECTIVES OF MAINTENANCE:

- A. Reducing breakdowns & emergency shutdown.
- B. Optimising resource utilization
- C. Reducing down time
- D. Improving spare stock control
- E. Improving equipment efficiency
- F. Reducing scrap rate
- G. Optimising the useful life of the equipment.
- H. Providing reliable cost & budgetary control



### TYPES OF MAINTENANCE:

- ❖ Breakdown Maintenance
- ❖ Preventive Maintenance
- ❖ Autonomous maintenance

### BREAKDOWN MAINTENANCE:

- ❖ Done after the machine breakdown.
- ❖ Operator informs to his team leader/Supervisor to raise a complaint to the maintenance team
- ❖ The team rushes to the machine & fixes the issue.

SI.No.	Advantages	Disadvantages
1	Start-up cost low	Unpredictability
2	Lower maintenance expenses	Equipment not maximized
3	Higher potential margins	Indirect costs

### PREVENTIVE MAINTENANCE:

- ❖ Done by maintenance team at regular intervals to keep the machine in working condition.
- ❖ Maintenance team would do scheduled based maintenance.
- ❖ Calendar should be created covering all major machine in the unit & person responsible for the same.

### Advantages

1. The approach allows for scheduling modification to accommodate other works.
2. Energy Savings as a result of improving the efficiency of the equipment.
3. Reduced equipment or process failure
4. Overall saving

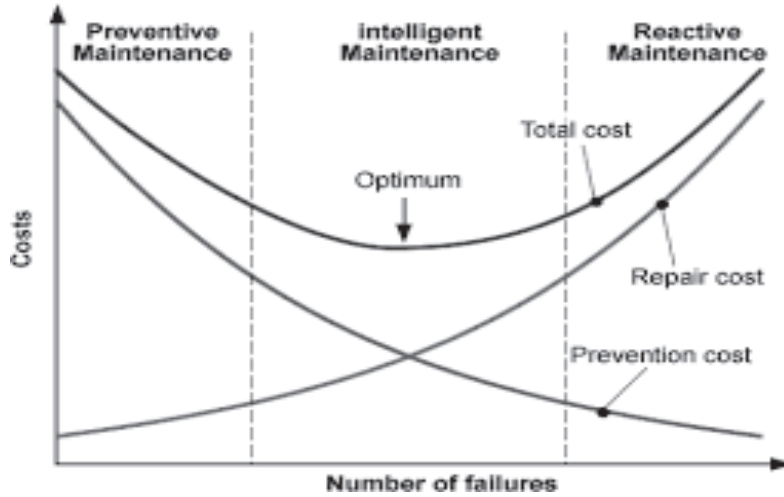
### Disadvantages

1. When performing needless maintenance, there is potential harm.
2. Maintenance performed according to a schedule is not needed.
3. Savings are difficult to see without a base line.

**AUTONOMOUS MAINTENANCE:**

- ❖ It is part of preventive maintenance .Done by the operator by themself on daily basis.
- ❖ CLITA-Cleaning, Lubrication, Inspection, Tightening, Adjustment
- ❖ Minor spare change can come under AM ( Autonomous Maintenance)

**MAINTENANCE COST**



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Central graphic featuring an EHS (Environment, Health, Safety) logo, a firefighter, a doctor, and a speed monitoring vehicle.



