

# MAINTANANCE OF PLANT AND MACHINES

Effort directed towards the upkeep and the repair of machine as well as building is called maintenance. The moment a machine is found worn and torn up, proper attention must be paid to protect the machine and its component. A proper attention means lubrication, cleaning and timely inspection. Attention towards this aspect is necessary and important because a major part of the expenditure is generally made of man, machine and material.

Maintenance are of two type—

- 1)Planned Maintenance
- 2)Unplanned Maintenance

Planned maintenance signifies the maintenance work conducted in planned and orderly manner. It is divided under two sub types:

- A)Preventive maintenance
- B) Corrective maintenance

A)Preventive Maintenance:- In this type of maintenance, efforts are made to prevent failure and to locate the faults .Further, we can classify preventive maintenance as running maintenance and shutdown maintenance.

Running maintenance- This type of maintenance is conducted when the item is running or in service.

Shutdown maintenance- This type of maintenance is conducted when the item is out of service.

B)Corrective maintenance: This type of maintenance is conducted to restore the item to its original working conditions. In this case minor repairs are carried out between inspections.

Breakdown maintenance- This type of maintenance is carried out after the failure.

Emergency maintenance:-This type of maintenance is carried out when the maintenance work is caused by unforeseen breakdown of the component of a machine part. It may be noted here that this the type of maintenance is conducted only in exceptional cases. When the planned maintenance system is followed, then there would not be the necessity for emergency maintenance.

## MAINTENANCE OF ROLLING STOCK:-

### OBJECTIVE

To provide maximum availability of Locomotives / Stock to Traffic, for safe, reliable and punctual operations, at a minimum cost.