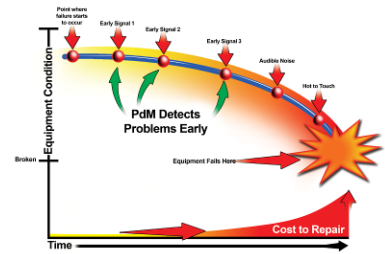


Tool Box Talk – Failure Mode Driven Strategy

MONTHLY TRAINING TOPICS – Journey to World Class

This training is designed for a maintenance manager or reliability manager to train their staff in known best practices



A Failure Modes Driven Strategy is defined as a maintenance strategy (PM/PdM) focused on “prevention or prediction of specific failure modes”.

A **Failure Mode** is the condition that exists that will cause a Functional Failure.

A **Functional Failure** is the inability of an item (or the equipment containing it) to meet a specified performance standard.

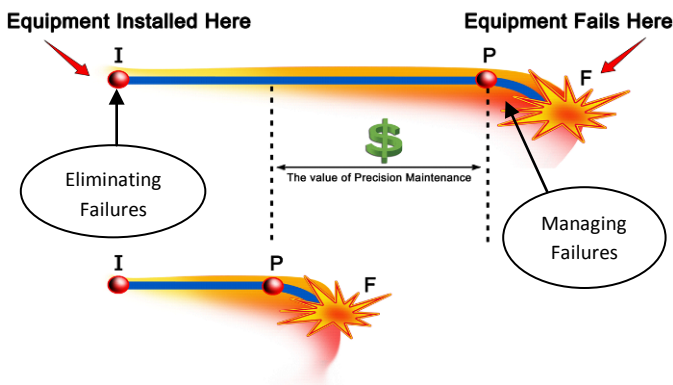
Example: Motor bearing is failing caused by lack of lubrication. A Functional Failure would be if a roller bearing did not rotate. If the bearing is not changed before it stops rotating, other damage within the motor and coupling could occur.

The Objective – Prevention of a Failure Mode

1st: To **know how specific equipment fails** (failure modes and their causes), typically on critical equipment first.

2nd: To **prevent a failure mode from occurring through known best practices**, such as the right lubrication at the right time.

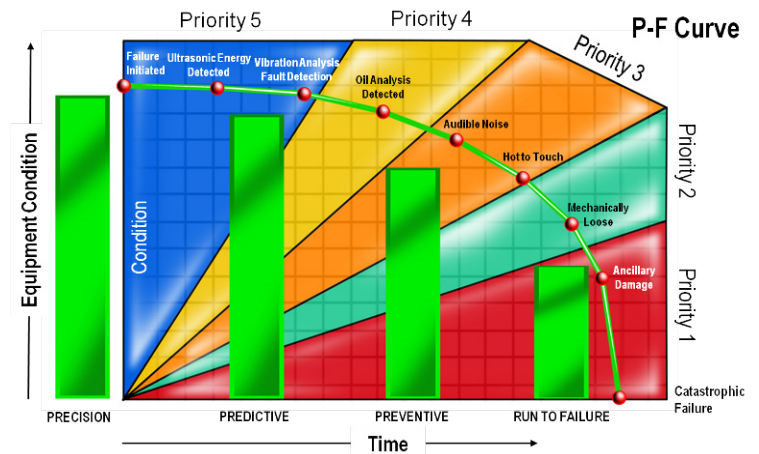
3rd: To ensure that **equipment runs failure free longer** because of the application of best lubrication practices.



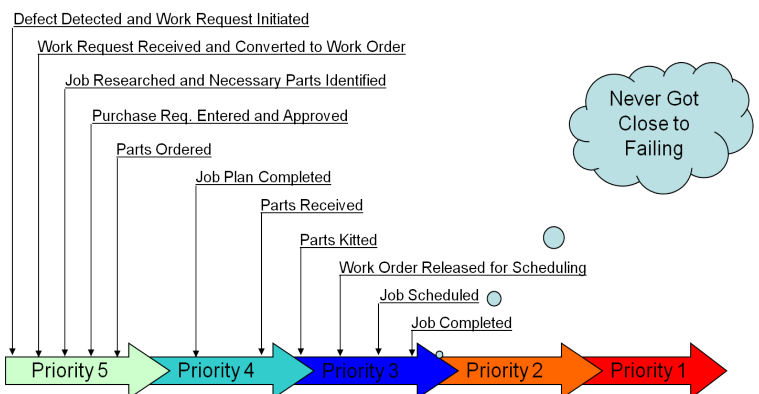
The Objective – Prediction of a Failure Mode

1st: To **know how specific equipment fails** (failure modes and their causes), typically on critical equipment first.

2nd: To **predict a failure mode early enough** to correct the defect (abnormality) before the equipment fails. In essence, this would mean that there are multiple defects identified with Priority Codes 4 and 5. This enables an organization to effectively plan, schedule, and execute jobs using repeatable standardized procedures.



3rd: To **schedule the corrective work without interrupting operations**. Corrective work should be conducted during “Windows of Opportunity”.



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