

Maintenance Engineering and Maintainability: An Introduction

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Abstract: Maintenance is another important aspect of system performance after reliability. There are several facets of the the maintenance management and in this introductory chapter, we would like to have these surveyed. Broadly speaking, maintenance is the process of maintaining equipment in its operational state either by preventing its transition to a failed state or by restoring it to an operational state following a failure. This leads to various types of maintenance activities that can be planned to realize the objective of maintenance, such as preventive, predictive or corrective. Recent developments in the maintenance engineering and management are also discussed in this chapter.

46.1 Introduction

The Oxford dictionary meaning of “to maintain” is to “cause something to continue” or “to keep something in existence at the same level”. Therefore, maintenance does extend the useful life of a product or system. Also the necessity of “upkeep” arises to oppose the forces of degradation. The degradation can be due to deterioration caused by environment to which the equipment is exposed or due to deterioration of equipment arising from its actual use. From British Standard BS4778-3.1:1991 or BS 3811:1993 (or MIL-STD-721B), one settles for the definition of maintenance as: “Maintenance is the process of maintaining an item in an operational state by either preventing a transition to a failed state or by restoring it to an operational state following failure”. Therefore, the primary aim of maintenance system is to prolong the state of

functioning of equipment or a system by not allowing it to deteriorate in condition.

There is an interesting philosophical paper by Rao [25], who postulates 14 laws for the subject of universal theory of failures. But more interesting and of concern to maintenance engineers is the section on anatomy of failures in this article, which makes it an interesting reading, particularly in relation to fault and failure and the warning time to failures as catastrophic failures do not occur instantaneously without a warning time. This allows us to take proactive measures to avoid them.

46.1.1 Maintenance System

An effective maintenance system involves three separate entities of work, *viz.*, maintenance, inspection and verification, which can be done by different groups in the same company or different companies specifically subcontracted for the purpose.

Reliability And Maintainability Engineering Ebeling Solutions

N Colangelo



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