

Reliability :-

Reliability is a characteristic which refers to the ability of a product to perform its intended function when required to do so. If equipment works satisfactorily whenever it is operated, we say that it is a reliable equipment.

Reliability can be calculated as :-

$$R(t) = \frac{N-h}{N}$$

N = Number of articles

h = Number of failed articles

Basic Element of Reliability :-

- 1 - Numerical value of Probability
 - 2 - Statement of defining successful
 - 3 - Product performance.
 - 4 - Statement of the required operating
 time
- etc