

☆

☆ ☆

 $\stackrel{\wedge}{\Rightarrow}$

☆

☆☆

 $\stackrel{\wedge}{\Rightarrow}$

☆

 $\stackrel{\wedge}{\Rightarrow}$

☆

 $\frac{1}{2}$

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\boxtimes}$

☆

☆☆

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\Rightarrow}$

☆

☆☆

 $\stackrel{\wedge}{\Rightarrow}$

SOCIETY OF DEFENCE TECHNOLOGISTS

(Workshop on "Reliability Tools and Techniques for Defence Equipments")

Date:- 02nd & 03rd June 2022 Venue:-Royal Orchid Metropole,
#5, JLB Road,
Mysore - 570 005,
Telephone:- +91 821 355 5566
Mob No:- +91 9902000143

Programme Details

TIME EVENT

Day-1 02nd June 2022

01.00PM - 01.45PM Lunch

☆

☆

☆

☆

☆

☆

 $\stackrel{\wedge}{\Longrightarrow}$

☆☆

 $\stackrel{\wedge}{\Rightarrow}$

☆☆

 $\stackrel{\wedge}{\boxtimes}$

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\Rightarrow}$

02.00PM - 02.15PM About SODET by Shri Ravindra N, Sec.

Gen / SODET

02.15PM - 02.30PM Key Note Address by Shri K R Radhakrishna,

ED, BEML, Mysuru

02.30PM - 03.45PM Introduction to Reliability, Maintainability &

Availability Concepts"

03.45PM - 04.00PM Comfort Break

04.00PM – 05.45PM Talk on "Reliability Tools & Techniques"

"MTBF, MTTR, FMEA, Fault Tree diagram, Process Flow diagram"

Day -2 03rd June 2022

09.30AM – 11.30AM Reliability Case Study & Calculation

11.30AM - 11.45AM Comfort Break

11.45AM - 12.30PM Quiz and Feedback

12.30PM – 12.45PM Vote of Thanks & followed by lunch

About Reliability:-

 $\stackrel{\wedge}{\boxtimes}$

 $\stackrel{\wedge}{\sim}$

☆

☆

☆☆

☆

 $\stackrel{\wedge}{\simeq}$

☆

 $\stackrel{\wedge}{\simeq}$

 $\stackrel{\wedge}{\bowtie}$

☆

☆

 $\stackrel{\wedge}{\Rightarrow}$

☆

 $\stackrel{\wedge}{\bowtie}$

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\sim}$

☆

 $\stackrel{\wedge}{\boxtimes}$

 $\stackrel{\wedge}{\boxtimes}$

 $\stackrel{\wedge}{\boxtimes}$

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\Rightarrow}$

☆ ☆

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\boxtimes}$

 $\stackrel{\wedge}{\Longrightarrow}$

 $\stackrel{\wedge}{\Rightarrow}$

☆

☆

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\boxtimes}$

☆

 $\stackrel{\wedge}{\Rightarrow}$

☆

 $\stackrel{\wedge}{\boxtimes}$

 $\stackrel{\wedge}{\sim}$

 $\stackrel{\wedge}{\Rightarrow}$

 $\stackrel{\wedge}{\boxtimes}$

☆

 $\stackrel{\wedge}{\boxtimes}$

☆

 $\stackrel{\wedge}{\boxtimes}$

☆

☆

 $\stackrel{\wedge}{\boxtimes}$

☆

☆

☆

 Reliability engineering is a sub-discipline of systems engineering that emphasizes the ability of equipment to function without failure. Reliability describes the ability of a system or component to function under stated conditions for a specified period of time. Reliability is closely related to availability, which is typically described as the ability of a component or system to function at a specified moment or interval of time. The reliability function is theoretically defined as the probability of success at time t, which is denoted. This probability is estimated from detailed (physics failure) analysis, previous data sets or through reliability testing and reliability modelling.

 $\stackrel{\wedge}{\Rightarrow}$

☆

☆

☆

☆

☆

☆

☆

☆

☆

☆

☆

☆

☆

☆

☆

☆

☆

☆

 $\stackrel{\wedge}{\simeq}$

☆

☆ ☆

☆

☆

☆

☆

☆

 $\stackrel{\wedge}{\Rightarrow}$

☆

☆

☆

☆

 $\stackrel{\wedge}{\simeq}$

☆

☆

☆

☆

☆

☆

☆

☆

☆

☆

 $\stackrel{\wedge}{\Rightarrow}$

☆ ☆

☆

 $\stackrel{\wedge}{\Rightarrow}$

☆ ☆

Availability, testability, maintainability and maintenance are often defined as a part of "reliability engineering" in reliability programs. Reliability often plays the key role in the cost-effectiveness of systems.

Reliability engineering relates closely to Quality Engineering, safety engineering and system safety, in that they use common methods for their analysis and may require input from each other. Reliability engineering focuses on costs of failure caused by system downtime, cost of spares, repair equipment, personnel, and cost of warranty claims.

The word reliability can be traced back to 1816, and is first attested to the poet Samuel Taylor Coleridge before World War II the term was linked mostly to repeatability; a test was considered "reliable" if the same results would be obtained repeatedly. In the 1920s, product improvement through the use of statistical process control was promoted by Dr. Walter A Shewhart at Bell Labs, around the time that Waloddi Weibull was working on statistical models for fatigue. The development of reliability engineering was here on a parallel path with quality. The modern use of the word reliability was defined by the U.S. military in the 1940s, characterizing a product that would operate when expected and for a specified period of time.