

RELIABILITY

2-DAYS AWARENESS TRAINING PROGRAM

Context: With an increase in the technical complexity of products and the advent of global competition there has been a growing concern about product reliability. It is estimated that 70% of all problems in automotive industry are design related. The reliability and durability are the two most important dimensions out of the eight quality dimensions namely performance, conformance, features, aesthetics, reliability, durability, serviceability and perceived quality image of the company. Today, customers have been sensitized to a higher level of expectations and demand products that are highly reliable/ durable yet affordable. Therefore, there are three requirements for achieving a reliable product:

1. The design must have margin with respect to the stresses to which it will be subjected during manufacturing and actual field use
2. The manufacturing process must be stable and completely documented. Variations from the " tried and true" must be considered experimental until proved
3. There must be an effective feedback and corrective action system, which can identify and resolve problems quickly, in engineering, manufacturing, and field.

Therefore, companies need to develop products and processes to consistently perform as intended in meeting the customer requirements during their useful life under the wide range of real world operating conditions.

Contents : This two day awareness programme on Reliability shall cover the following topics:

- Why Reliability Engineering
- Definitions of Reliability, Maintainability and Availability
- Limitations of Reliability Concept
- Three Viewpoints on Reliability
- Reliability as a Metric

- Reliability Measure
- Reliability Cycle
- Analyze and Diagnose Reliability
- What is Failure
- Types of Failure
- Reliability and Cumulative Distribution
- Reliability Distributions
- Stress Strength Interference
- Bathtub Curve
- Hazard Rate
- Design for Reliability
- FTA/FMEA
- Reliability Modeling and testing
- Reliability Prediction

Course Certificate: Each participant will be entitled for a training certificate.

Trainers' Profile: The workshop will be conducted by Mr. Shanti Sarup, an ex Tata Motors senior executive who has conducted a number of successful training programmes. He is a certified Quality Engineer and a trained lead assessor

Participant's profile: The programme shall be useful for engineers and managers involved in planning, designing and maintaining products and processes towards meeting consistently the ever-changing needs of the customers.

For further details, fee or quotation, please contact:

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