

With more than 30 years experience, **SETSCO Services Pte Ltd** is one of Singapore's largest testing and inspection companies.

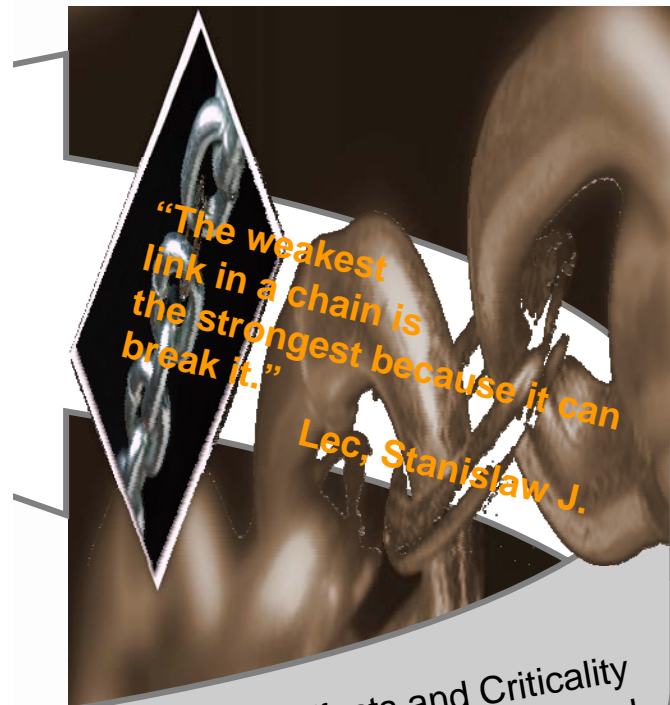
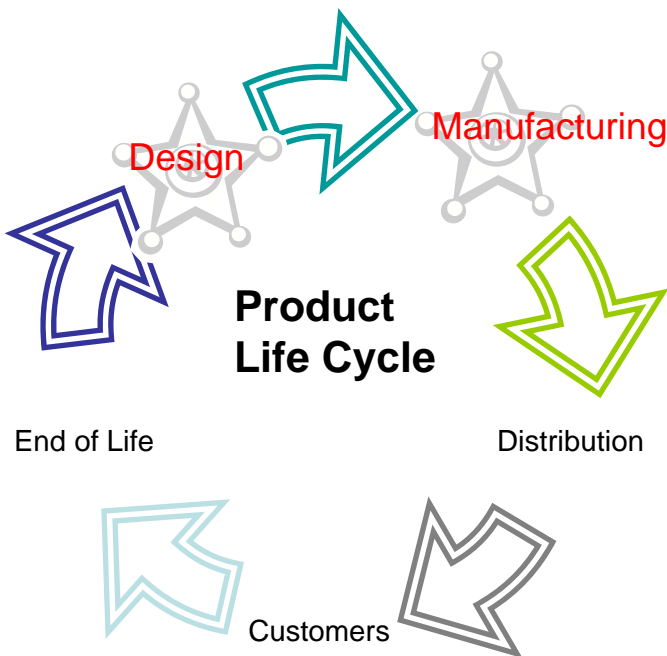
Your reliable partner in your testing needs. SetSCO provides reliability testing for your products.

Reliability is the resistance to failure of a device or system. It includes the design of the testing procedures to the periodic test to ensure the system is able to perform its functions for a define period of time before the end of it service life time. Reliability tests are not only conducted during the R&D stage, products are randomly picked for testing to ensure quality and assurance. A continuous improvement programme to ensure products are better, learning from failures.

Companies conduct reliability tests to ensure the products will meet up to its' standards and minimise the failure rates. Planning the correct reliability testing is critical, missing inherent weaknesses in a product that fail in application will cause warranty and customer dissatisfaction.

## Products Reliable = Company Reliance

Work with SetSCO today, a reliable 3<sup>rd</sup> party testing laboratory, to assist your reliability needs!



**FMEA** (Failure Mode Effects Analysis) . **FMECA** (Failure Mode Effects and Criticality Analysis) . **FTA** (Fault Tree Analysis) . **RBD** (Reliability Block Diagram) . Accelerated Testing . Weibull Analysis . Fault tree analysis . Root cause analysis

# RELIABILITY TESTING

## Your Reliability Partners:

Reliability tests are designed for suspected failure modes and other problems under carefully controlled and monitored conditions to ensure products quality before distribution into the market. Setesco understands the needs of reliability tests and having a list of available equipments to suit your products needs.

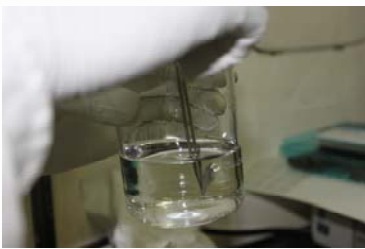


**Thermal Shock** is a mode of environment testing whereby the objects are exposed to a sudden change in temperature within seconds for a period of time and cycles. Cause by the effect of global warming, the atmosphere temperature becoming adverse, thus more and more products require the need for environment and reliability testing.



**Temperature Humidity** provides a simulation to the climate condition around the region. High humidity is the cause of oxidation and rust in most products, it will also increase the conductivity of permeable insulators leading to malfunction in electronics products.

**Salt Spray** chamber is developed to test the products ability to resist to saline-induced corrosion. One of industry's most prominent responses to the problem of corrosion caused by salt exposure is plating. With the understanding to the extent to which the products succumb to corrosion, company can continue to improve on their products.



**Chemical Resistance Test** is usually conducted on polymer, as polymers are mostly used as casing for products and is most prone to be attacked by chemical. Chemical Resistance Test create simulated environment to accelerate the polymer reaction with various type of chemical. This a wet chemistry based test. Testing solutions usually include artificial perspiration, sodium carbonate, acetic acid, sucrose, acid and alkaline solution.

**Halt (Highly Accelerated Life Test) / Hass (Highly Accelerated Stress Screen)** is a test that subject a product to a random six-degree-of-freedom vibration and rapid thermal change rates - in the combined environment necessary to accelerate the failure of the product.

**High Temperature Storage Test, Vibration Test, Walk-in Chamber and Etc...**



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