



Reliability Solutions has now formed a partnership with **Oakland Consulting** to bring to bear over 30 years of deep technical testing and development experience for our clients.

Oakland Consulting is a privately owned independent niche consultancy based in Leeds which delivers high quality bespoke performance improvement solutions to predominantly large complex European organisations.

Well established with over 27 years of successful operation Oakland has broad experience in power and utilities sector and was founded on Quality, Operations and Strategic Process Management and is an established industry leader in delivering:

- 21st Century Quality and Performance Improvement, including Lean Six-Sigma Business Research and Skills
- Development with strong academic links – respected member of BSI, BQF, EFQM and MCA

This exciting partnership represents a significant addition to the offerings/services Oakland provides to its vast client base and future clients.

It is a clear statement to all manufacturing companies on the consequences of not getting Reliability right in the early stages of development and mass production.

Reliability Solutions has helped clients achieve World Class Reliability in many areas of the world, more specifically Asia.

MD Martin Shaw brings with him a wide range of solutions to fit any company wishing to control future failure levels and minimise service costs while maximising customer

satisfaction.

Oakland and 'Reliability Solutions' will now provide a number of technical services including:

- Reliability prediction modelling and the modelling of actual failure rates based on accelerated testing results.
- The design of accelerated testing regimes for new product development.
- The organisation and design of 'reliability functions and processes' – including the provision of specialist training.

Reliability Testing and Failure Prediction Services

Reliability Prediction / Extrapolation from accelerated testing results

We have developed customised prediction techniques for a range of clients to ensure accelerated reliability stress test data is used to make accurate predictions for both early life failure and long term reliability levels. These periods represent very different failure modes:

- Early Life Failures are predominantly due to process type issues and weak components
- Longer Life Failures being more design and component related. Hence totally different test programmes are required to evaluate the full life reliability performance of any electronic product.

Development of testing regimes for different product types

We have also developed quite unique methods to optimise accelerated stress testing for early life simulation and predict the early life failure rate.

This enables a very accurate prediction of expected early life reliability which is a separate failure distribution to that of longer / useful life period.

This can be combined with traditional MTTF (Mean Time To Failure) testing which is further enhanced by combining it with other, stress inducing, techniques.

This provides the most accurate prediction of longer life reliability. The results are statistically robust and can often be correlated with similar industries.

The organisation and design of 'reliability functions and processes' – including the provision of specialist training.

From experience of consulting with multiple electronic manufacturing companies, we have developed intensive methods to assess any company's approach to reliability management. By surveying all the key areas and practices that combine to affect design and process reliability, we can provide a detailed GAP analysis and work with clients to build more robust solutions.

There are 2 key links for people to view to find out more about our combined intentions and offerings.



[White Paper - Improving Reliability, Extending Warranty, Building Competitive Advantage \(Click Here\)](#)



[Are your products reliable? - Three questions every CEO should get answered \(Click Here\)](#)
