

Process Optimization

For Semiconductor Manufacturing

A structured approach for engineers which improves the performance of new and existing processes.

R&D and manufacturing problems are best solved with a combination of scientific and engineering judgment plus statistical tools applied in a directed way.



Important statistical and quality improvement techniques are rarely taught to scientists and engineers at university but play a vital role in industry – from innovation through development into manufacturing.

By selecting tools from the quality toolbox (see over) and applying them in a methodical way it is possible to:

- ? **Face audits with confidence**
- ? **Improve R&D and manufacturing performance**
- ? **Optimize product and process design**
- ? **Identify problems earlier in development & fix those in manufacturing**
- ? **Improve the quality and reduce the cost of experimentation**
- ? **Make data-driven decisions removing ambiguity, reducing potential conflict and achieving targets**
- ? **Implement a strategy to achieve the highest quality (Six Sigma)**
- ? **Make better use of control charts**

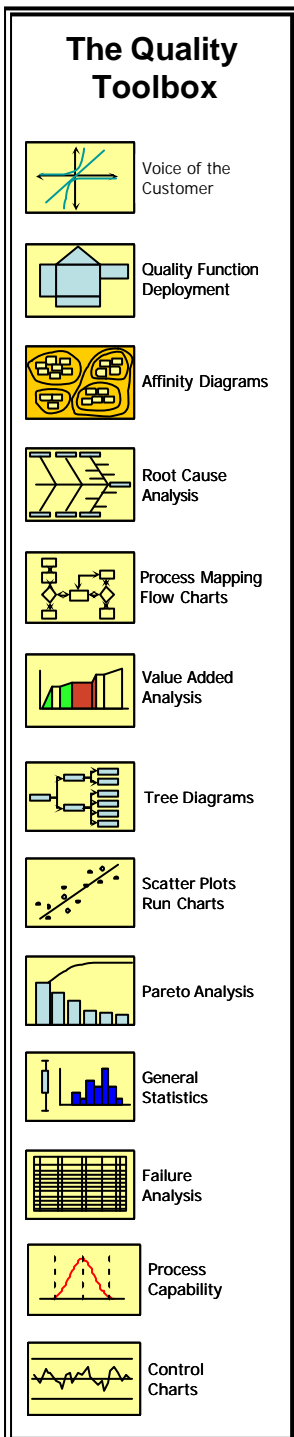


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**Free Seminar -
PTO...**

Free, On-Site Technical Seminar



To be a winner...

...you need the right tools for the job...

Controlling variation is vital for producing high quality products and processes. There are a number of statistical and other techniques which not only enable us maintain control in manufacturing but also speed the design and development process. **Systematic use of these tools (including statistically designed experiments)** ensures a smooth transition to production, and reduces post-implementation crises.

This three hour technical seminar for scientists and engineers introduces the following topics in a non-mathematical way:

Statistics as a Core Tool

Use and Abuse—a Common Language

Introduction to Design of Experiments

A tool made over-complex in text books

Process Capability — The Dangers

The importance of sample size

The contribution of the measurement system

Making Best Use of the Quality Toolbox

Structured Problem Solving

Six Sigma and PRIMME methodologies



Managers and technical professionals wishing to gain an insight to these important process improvement tools will benefit most from the seminar.

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