

A foundation course

Reliability Enhancement Testing



TRaC Environmental & Analysis Ltd.
Rothwell Road, Warwick, CV34 5JX
25 - 26 March 2009



Reliability Solutions
www.reliability-solutions.co.uk

*An essential foundation course
for electrical and electronics design,
quality and manufacturing engineers and managers*



Reliability Plus
www.reliability-plus.co.uk

What could an unreliable product really cost your company? Your credibility? Your reputation? Your future?

MARKETS are demanding cheaper, more reliable products and many manufacturers find that traditional, established procedures and processes are now being questioned. The idea of running months of extensive reliability testing is fast becoming a luxury – and one that few can justify.

YET in today's market driven climate you need, even more, to review procedures, examine options and pursue cost-effective solutions that will allow you to stay competitive and profitable, and increase your market credibility.

RELIABILITY enhancement is now within everyone's reach. Global customers seek out suppliers whose enhanced reliability performance improves their own market penetration and consolidates their own position – the rewards are substantial for those suppliers ready to meet the new demands.



Bob Page

MUCH focus is placed on Early Life Reliability Improvement, which is the main issue today in Product Reliability.

IMMEDIATELY effect change in your organization in the way in which products are stress tested and failure data analysed.

KNOWLEDGE from the seminar will enable you to further develop future improvements in Reliability through controlled experimentation.

www.reliability-plus.co.uk

HOW can you share in these rewards?

JOIN our two-day foundation course in RELIABILITY ENHANCEMENT TESTING and gain a clear understanding of the theory and practice.

EXPERTS in their own fields, Martin Shaw, of Reliability Solutions and Bob Page of Reliability Plus present the seminar. They have over 40 years of experience between them in the field of Accelerated Testing and Reliability Improvement.

WITH the knowledge and skills acquired at the end of the training program, you will have a high level appreciation of Reliability and Reliability Improvement.

THE seminar will provide you with a very thorough understanding of Accelerated Stress Screening and Accelerated Testing and introduce new models to follow in upgrading existing practices.

www.reliability-solutions.co.uk



Martin Shaw

Course Contents

The two-day seminar covers a wide range of reliability topics, including:

- ◆ Understanding basic Reliability theory and the fundamental statistics involved
- ◆ Accelerated Testing and the wide range of models applied in semiconductor and product level testing
- ◆ Focus on Early Life Reliability and the best methods to induce early life weaknesses in electronic assemblies
- ◆ Understanding the important relationship between Manufacturing Process Yield and Early Life Failure levels
- ◆ Case studies showing the positive effects of focusing on early life reliability improvement
- ◆ Application of Design of Experiments (DOE) in reliability experimentation/improvement
- ◆ Understanding the Weibull distribution and its application in reliability measurement/prediction
- ◆ How to use Highly Accelerated Life Testing (HALT) to enhance design reliability
- ◆ Planning and managing the HALT process
- ◆ Understanding multi-axis vibration table characteristics
- ◆ The principles of screen strengths
- ◆ Using HALT to develop an effective Highly Accelerated Stress Screening (HASS) process
- ◆ Implementing and optimising HASS
- ◆ Introducing Highly Accelerated Stress Audit (HASA)
- ◆ HALT case studies – practical implementations and lessons learned
- ◆ HALT Workshop

METHODOLOGY

A two-day seminar forum with continual interaction while learning.

Class participation is encouraged to ensure the knowledge is fully absorbed and attendees have the ability to apply new learning very quickly.

Training will be power point slide based with several hands-on class workshop examples where students actively participate.



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WHO SHOULD PARTICIPATE?

Engineers and Managers
Reliability, Quality, Product, Process, R&D, Customer Quality, etc

COURSE FEE

£675 per person (plus VAT)
Less 20% for additional attendees from the same organisation

www.reliability-plus.co.uk

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Booking Form: Reliability Enhancement Testing
TRaC Environmental & Analysis Ltd. Rothwell Road, Warwick CV34 5JX
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COMPANY NAME:		CONTACT PERSON:	
ADDRESS:			
POSTCODE:			
TELEPHONE NUMBER:		FACSIMILE NUMBER:	
DELEGATE 1, NAME:		JOB TITLE:	
TEL/EXTENSION:		E-MAIL ADDRESS:	
DELEGATE 2, NAME:		JOB TITLE:	
TEL/EXTENSION:		E-MAIL ADDRESS:	
DELEGATE 3, NAME:		JOB TITLE:	
TEL/EXTENSION:		E-MAIL ADDRESS:	
Seminar total @ £675 per head =	£	Less applicable discount* =	£
VAT at 15% =	£	Total amount =	£
Payment methods			
Cheque payable to :	Reliability Solutions		
BACS transfer to:	The Royal Bank of Scotland	10 St. James Terrace, Kilmacolm PA13 4HD	A/C no. 00127575, sort code 83-23-20
Purchase order no:		Pro forma invoice required? (Y/N)	<i>PayPal</i> available († email M. Shaw for details)
<i>Payments must be received by 20 March 2008</i>			
Transfers and cancellation			
• Bookings may be cancelled up to 14 days in advance of the seminar.	Email or fax this form to:		Reliability Solutions
• Your fee will be refunded less a 5% administration charge			18 Hillside, Houston, Renfrewshire PA6 7NT
• If you cancel within 14 days of the seminar you may only transfer your booking to a colleague from your organisation. No refund available.	† Email: martinshaw1@compuserve.com		cc: Trac@reliability-plus.co.uk
	Fax: 01505 382769		
* Discount	If you have any questions contact:		
Less 20% for the second and further attendees from the same organisation	Reliability Solutions		07967 144 097
	Reliability Plus		01453 878540