

SMART Group SA welcomes back Bob Willis!

Seminars and workshops May 2009

SMART Seminars

Advanced Technology:

Durban – Monday 18 May
Midrand – Tuesday 19 May
Cape Town – Thursday 21 May

The Seminar will cover:

- Pin In Hole Reflow Implementation
- CSP & QFN, DFM and Assembly
- Vapour Phase Reflow for Lead Free Assembly
- Beating the Chip Counterfeiters
- Advances in Conformal Coating Technology

SMART Workshops

Midrand – Wednesday
20 May 2009

BGA, CSP, LGA, QFP and QFN Assembly, Rework and Repair

These devices have fast become a common package type used in many products. With any new device type there is always a learning curve for design, process and quality engineers who have to get to grips with the challenges that these packages bring. Each step of the process will be reviewed along with results of practical process trials with these devices. Included with this workshop will be a set of SMART Group optical and X-ray inspection charts for each delegate to use in manufacture. The workshop presenter is well known for his practical workshops and supported by his unique video experiments; the topics are guaranteed to come alive.

Who should attend?

This workshop is designed for design, process and quality engineers responsible for introducing products containing LGA/QFN. Much of the material presented is extremely visual and practical making it ideal for manufacturing staff, like all the instructors workshops it's not just theory, it's a "How to Do it Session."

Workshop topics include:

Component Package Types, Component Construction, MSD Handling Levels, Solderability Testing Packages, Printed Board Layout, Solder Mask Layout Options, Lead-Free Stencil Printing Options, Visual Inspection Criteria, X-ray Inspection Criteria, Rework and Replacement, Array Solder Joint Reliability, Common Process Problems.

Hand Soldering and Desoldering, including Rework and Lead-Free Solders

The workshop will provide a step by step guide to hand assembly and rework of all common types of terminations and

BOB WILLIS



Bob Willis currently operates a training and consultancy business based in England. Bob is the Technical Manager of the SMART Group and a member of the technical committee. Although a specialist for companies implementing Surface Mount Technology Mr Willis provides training and consultancy in most areas of electronic manufacture. In

the last 10 years focusing on lead-free manufacture which has earned him the SOLDERTEC/Tin Technology Global Lead-Free Award for his contribution to the industry. He has worked with the GEC Technical Directorate as Surface Mount Co-Ordinator for both the Marconi and GEC group of companies and prior to that he was Senior Process Control Engineer with Marconi Communication Systems, where he had worked since his apprenticeship. Following his time with GEC he became Technical Director of an electronics contract manufacturing company where he formed a successful training and consultancy division.

Currently Mr Willis is supporting the NPL "Lead-Free Masterclasses" workshops on design, manufacturing and rework which are being presented around the UK.

look at the potential problems faced with lead-free assembly. Attention will be paid to the types of defects that can be introduced when rework is not conducted correctly and what corrective actions need to be put in place.

Each delegate will receive a set of SMART Group lead-free inspection criteria wall charts with this workshop.

Who should attend

This session aims to provide a practical introduction to issues of soldering, rework and repair and is suitable for engineers,

supervisors and operators looking at the issues faced with hand assembly, rework and inspection.

Workshop topics include

Overview of the assembly process, Soldering theory, Cored solder wire, Cored wire selection, Soldering operation, Soldering iron care, Tip corrosion issues with lead-free, Removal & replacement of through hole, Removal & replacement of surface mount, De-soldering techniques, Reliability of mixed alloy joints, Lead-free inspection criteria, Typical lead-free defects.

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Durban – Seminar

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KEITH BRYANT



A qualified Production Engineer, Keith is a Director of the UK SMART Group and sits on its Technical Committee, a member of the SMTA, and the ICT. He was one of the driving forces in forming Smart Group South Africa and acts as liaison with the UK parent, also working with

the local team to produce these excellent and well supported events. Often called "The adopted son of the SA Electronics Industry", he is passionate about the need for more high quality Engineer and Operator training and strongly believes in the positive future of the Electronics Manufacturing Industry here. Currently, he is the European Sales Manager of Dage X-Ray Systems. Keith has presented technical papers on many subjects including Lead-Free Materials and Process, throughout Europe, Asia and the USA.

CONTACT

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