

BGA, CSP, LGA, QFP and QFN Assembly, Rework and Repair Hand Soldering and Desoldering, Including Rework and Lead-Free Solders Wednesday 20th May 2009 at the Protea Hotel in Midrand

“Do you have the answer to successful Assembly, Rework and Repair, Hand Soldering and Desoldering? No, well here is a great chance to learn from one of the industries experts from Europe Bob Willis.

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.

The workshop will cover:

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

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

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 and surface mount

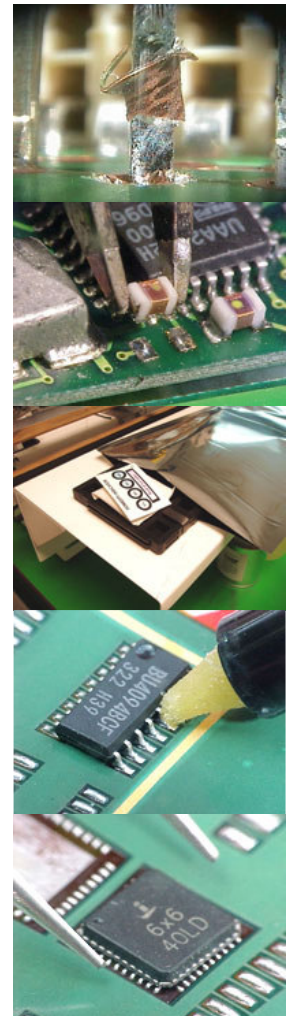
De-soldering techniques, Reliability of mixed alloy joints

Lead-free inspection criteria, Typical lead-free defects

Who should attend? Everyone who needs to improve their skills or learn more about the processes!

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.

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



To book your place fax your booking form to SMART Group SA registration 011 908 6488

Please reserve _____ places at the workshop on Wednesday 20th May 2009 in Midrand
(R 700 SMART Group members / R 1100 Non members) (10% discount for payment made by 30th April 2009)

Name: _____ Name: _____

Email: _____ Email: _____

Company: _____ VAT Number: _____

Postal Address: _____

Telephone: _____ Fax: _____

Signature: _____ Date: ____/____/____

Banking Details: SMART Group SA
First National Bank
Branch Code: 252155
Account Number: 62152547661
Cheque Account

Detailed Directions etc. will be sent after registration



Bob Willis



BOOK NOW!
Places strictly
limited to ensure
Workshop quality

SMART Group SA Event Diary 2009

May	18th	Advanced Technology	Durban
May	19th	Advanced Technology	Midrand
May	20th	Rework & Repair, Hand Soldering & Desoldering	Midrand
May	21st	Advanced Technology	Cape Town

Table Top Exhibition Space

If you would like a table top exhibition space at a SMART Group SA event please contact Sylvea to discuss availability at the venue in question

SMART Group SA Facsimile: 011 908 6488
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