

Hand Soldering/Rework, Oven Profiling & BGA/QFP Rework Workshops

Tuesday 30th October 2007 at the Protea Hotel in Stellenbosch
Thursday 1st November at the Protea Hotel in Midrand

“Do you have the answer to successful rework and inspection including lead-free? No, well here is a great chance to learn new procedures and techniques, with industry experts from Europe including **Bob Willis & Marybeth Allen**, using live video demonstrations.

Fine Pitch/BGA and Lead-Free is new to many engineers and production staff. SMART Group SA is providing a one stop seminar to cover these issues and answer all your questions on rework and repair. During the event each delegate will have the opportunity to profile, hand solder and rework, perform QFP/BGA rework with a selection of alloys (Lead & Lead-Free) and inspect the results to gain first hand experience. Certificates will be awarded to all who successfully complete the Workshop. There will also be a variety of state of the art soldering, profiling and rework equipment to get evaluate and gain “hands on” experience with. There will also be a table top exhibition of related products

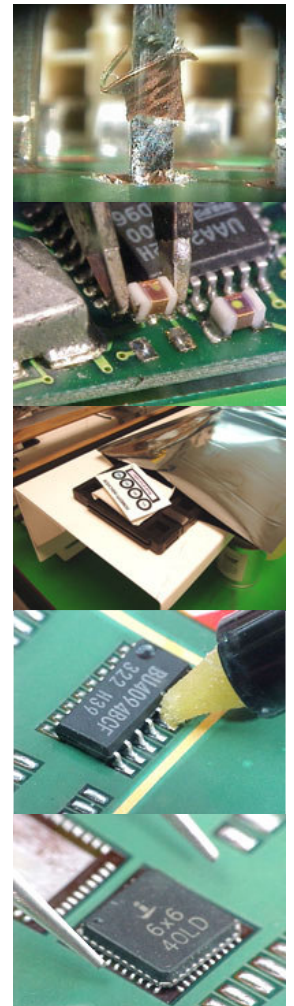
The workshop will cover:

- Overview of the lead-free assembly process
- Soldering theory and what is different between tin/lead and lead-free
- Cored solder wire selection
- Tip corrosion issues with lead-free
- Removal & replacement of surface mount and through hole
- BGA/QFP removal & replacement
- Reflow Oven temperature profiling
- Temperature profiling of boards for rework
- Mounting thermocouples and simulating the original reflow process
- Reliability of mixed alloy joints
- Lead-free inspection criteria
- X-ray inspection of repaired joints
- Typical lead-free defects

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

This event is ideally suited to engineers, quality and inspection staff, production and test operators and any member of staff tasked with manual soldering, BGA and QFP rework of board assemblies. Managers and supervisors would also benefit from a fuller understanding of the basic issues currently being experienced during modern rework.

Delegates will have the opportunity to win SMART Group Lead-Free Training CD-ROMs and can download a **Free** set of SMART Group Lead-Free Inspection and Quality Control posters



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

Please reserve _____ places at the workshop on Tuesday 30th October 2007 in Stellenbosch
(R 960 SMART Group members / R 1250 Non members) (10% discount for payment made by 30th September 2007)

Please reserve _____ places at the workshop on Thursday 1st November 2007 in Midrand
(R 960 SMART Group members / R 1250 Non members) (10% discount for payment made by 30th September 2007)

Name: _____ Name: _____

Email: _____ Email: _____

Company: _____ VAT Number: _____

Postal Address: _____

Telephone: _____ Fax: _____

Card type: Visa or Mastercard Card no: _____

Card expiry date: _____ Card security code (Last 3 numerals on signature strip) _____

Signature: _____

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 2007

Oct 29th Design for Manufacturing Seminar	Stellenbosch
Oct 30th Hand Soldering & BGA Rework Workshop	Stellenbosch
Oct 31st Design for Manufacturing Seminar	Midrand
Nov 1st Hand Soldering & BGA Rework Workshop	Midrand

Table Top Exhibition Space

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

SMART Group SA Facsimile: 011 908 6488
info@smartgroupsa.org www.smartgroupsa.org www.leadoutproject.com