

PRODUCTS AVAILABLE

We offer an extensive range of training, inspection and quality control products to support your company's training initiatives. The training videos and interactive CD-ROMs are ideal for distance learning, the photo CDs can be used to create your own training material. The poster sets are an instant solution to shop floor education.

practical training videos

- Introduction to BGA Technology
- SMT/Conventional Design for Manufacture
- Pin In Hole/Intrusive Reflow Assembly
- Wave Soldering Process Control
- Guide to Solder Paste & Screen Printing
- Wave Solder Defect Monitoring
- Wave Solder Machine Operation/Maintenance
- Surface Mount Rework & Repair
- Solderability Testing SMT Components
- De-Soldering Conventional Components
- PCB Outgassing Test Kit
- Introduction to Wave Soldering

- Reflow Soldering & Temperature Profiling
- European Inspection & Quality Standards
- Guide to Basic PCB Manufacture
- Static Control in Electronics
- BGA Rework & Repair
- Introduction to PCB Solderable Finishes
- Hand Soldering SMT & Conventional
- Introduction to Inert Soldering
- Introduction to Contamination Testing
- X-Ray Inspection of BGA and Fine Pitch Joints
- Introduction to Surface Mount Technology
- Introduction to Conventional Assembly

inspection poster sets

- Surface Mount Assembly & Soldering Standards
- Pin In Hole Intrusive Reflow Assembly Standards
- Solder Paste Printing Inspection and Defects
- Ball Grid Array X-Ray Inspection Guide
- Static Control in Assembly
- Hand Soldering Conventional & SMT
- Conventional Through Hole Component Recognition
- Basic Printed Circuit Board Manufacture

- Wave Soldering Defect Guide
- Conventional Soldering Standards
- Printed Circuit Board Manufacturing Defects
- Conventional Wire Termination Standards
- Surface Mount Assembly Defect Guide
- Surface Mount Component Recognition
- PCB Microsection Reference Charts

interactive CD-ROMs

- Lead-Free Assembly & Soldering Cook Book 3
- Conventional and Surface Mount Process Introduction
- Wave Soldering Process Introduction and Defect Guide
- Surface Mount Process Defect Guide 2
- Rework and Repair of Conventional & SMT
- Reflow Soldering and Temperature Profiling
- Pin in Hole Intrusive Assembly and Defect Guide
- Printed Board Circuit Design and Defect Guide
- Guide to Simultaneous Double Sided Reflow Soldering
- SMT/Conventional Inspection and Quality Control
- Ball Grid Array Assembly Inspection and Defect Guide
- Surface Mount Inspection Standards
- Conventional Inspection Standards
- Surface Mount Interactive Knowledge Assessment
- SMT/Conventional Joint Illustrations

- CD-ROM Photo Albums**
- Lead-Free Assembly and Soldering
- 0201 Assembly & Soldering
- Simultaneous Double Sided Reflow Soldering
- Pin in Hole Intrusive Reflow
- Ball Grid Array Assembly & Soldering
- Flip Chip Assembly & Soldering
- X-Ray Inspection
- Solder Paste Printing & Defects
- Wire Preparation and Crimping
- Printed Circuit Board Defects
- Surface Mount Process Defects
- Conventional Assembly Defects
- Surface Mount and Conventional Components



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offers
you
more
than this
man!



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BOB WILLIS

Electronic Presentation Services



BOB WILLIS

Bob Willis has been providing training and consultancy services in the electronics industry for the last 15 years. Through experience in conventional, surface mount, ball grid array and printed board manufacture Bob is able to bring both practical and theoretical experience to customers' training and consultancy projects.

With one of the widest ranges of training products in the industry, Bob is also able to provide both in-house training and distance learning products as well as inspection and quality control materials.

Bob is an active member of the SMART Group, Europe's largest surface mount and related technologies association as well as many other trade groups.

Although much of the work in Europe is training and providing process support he has also been involved in running training events and consultancy in the USA and the Far East.



CONSULTANCY

Assembly and soldering problems often occur in our industry and sometimes support to quickly eliminate the true cause of production failures can be beneficial. This can be achieved with a technical support program or an on site examination of products or processes.

Selecting materials, equipment, new processes or reviewing designs for manufacture can often require additional technical support for your company. Selecting printed board suppliers or contract assembly services is another service we provide for our customers.

When and if field failures occur it is beneficial to have an independent view, this can often pinpoint the real cause of the problem. Independent views can avoid protracted discussions, which may lead to unnecessary cost implications.

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TRAINING WORKSHOPS

Our in-house training workshops can be run as theoretical sessions or complete hands-on events based on our standard training modules. Alternatively any of the workshops can be modified to suit individual company requirements. A full listing of the workshop contents can be provided by email or obtained direct from our website.

in-house training workshops

Pin in Hole/Intrusive Reflow Design and Assembly
Lead-Free Assembly and Soldering
0201 Chip Design, Assembly & Soldering
Printed Board Design for Manufacture and Assembly
PPM/DPMO Process Monitoring Introduction
Wire Preparation and Crimping
Single & Double Sided Reflow Assembly
Selecting Solderable Finishes for Fine Pitch Assembly
Introduction to Ball Grid Array Technology

X-Ray Inspection of BGA and Quality Standards
Basic Printed Circuit Board Manufacture
BGA & SMT Process Control, Defect Elimination
Hand Soldering and De-Soldering
Hands-On Solder Paste and Stencil Printing
Quality Control of Surface Mount Assemblies
Hands On Wave Soldering & Process Control
Static Control in Electronic Assembly
Rework and Repair of Surface Mount and BGA

CONFERENCE & SEMINARS

Having organised seminars, conference and production lines for many of the leading suppliers in the industry we are also able to provide a complete seminar or roadshow service. This includes organisation of technical seminars, audio visual support as well as on-line booking of delegates. Bob has successfully organised seminars and production lines at leading exhibitions in the UK and Europe including many multi-company projects.



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