

Workshop

updated 8/12/10

August 24 -25, 2010

8:30 - 5:00

**Quality Suites Hotel
John Wayne Airport
Costa Mesa, CA**



IGNORANCE IS NO LEGAL EXCUSE!

Learn how to detect counterfeit components

Counterfeit Electronic Components Avoidance Workshop

Updated Information

Components Technology Institute, Inc.

904 Bob Wallace Avenue / Suite 117, Huntsville, AL 35801
256-536-1304 256-539-8477 www.cti-us.com

Counterfeit Electronic Components Avoidance Workshop

Counterfeit electronic components entering the supply chain are causing a huge economic impact in the electronics industry. This Workshop discusses avoidance practices to combat this problem through:

Examples of counterfeits
Packaging inspection procedures
Use of microscopes & detection equipment
RoHS - XRF & EDAX
Die inspection & authentication
Electrical Testing
Procurement issues
Avoidance actions and procedures

This Workshop has been presented to a total of over 700 attendees in USA and Europe.

- *Counterfeit components are causing a major catastrophe in the electronics industry*
- *The problem is rapidly growing based on recent surveys.*
- *The impact is affecting automotive, computer, consumer, telecom, medical, military and space electronics.*
- *Urgent action is required to reduce counterfeit caused manufacturing scrap, safety problems, improve reliability and customer satisfaction.*

The Workshop is Designed for:

Component Engineers
Purchasing Managers and Buyers
Quality Managers & Engineers
Inspection Personnel
Laboratory & Analysis Technicians

What is Causing Counterfeit Components?

- Obsolete Components.
- Long delivery times from OCM and FD.
- Huge accumulations of electronic scrap that source counterfeits.
- Buyers searching for unreasonably low prices.
- Internet Sales.

Goal

Provide awareness and training in the techniques and practices required to detect and avoid counterfeit components and the costs, legal issues and risks associated with them.

New Topics Presented

- **An Attorney discusses “Ignorance is no legal excuse” & typical court penalties for selling counterfeit components**
- **Due diligence practices that OEMs and Independent Distributors should consider.**
- **Counterfeit techniques through the eyes of ID insider.**
- **Detecting reclaimed ICs by the leads.**

Counterfeit Electronic Components Avoidance Workshop

Workshop Topics

These topics have been expanded and will be presented by experienced component engineers well versed in the detection of counterfeit components.

Day 1 - 8:30 - 5:00

1. *Introduction*; Leon Hamiter, CTI, Inc.
2. *Ignorance is no legal excuse for counterfeits*; Larry Pappas, Attorney
3. *Due diligence & AS 5553*; Leon Hamiter
4. *Microscopes & lenses*; Tom Lee, CTI, Inc.
5. *Counterfeit techniques through the eyes of ID insider*; Robb Hammond, AERI
6. *Visual & dimensional inspection - hermetics & PEMs*; Don Trenholm, Custom Analytical
7. *Analyzing data sheets, mil spec to detect counterfeits*; Leon Hamiter
8. *X-Ray & SCAM-Value & usefulness*; Don Trenholm
9. *X-Ray demonstration*; Bill Cardoso, Creative Electron
10. *Counterfeit passive components*; Leon Hamiter

Day 2 - 8:30 - 4:00

11. *Summary of OEM & CM counterfeit experience*; Tom Lee
12. *Hermetic package de-capping techniques (ceramic, metal, BGAs, PEMs)*; Don Trenholm
13. *De-capping PEMs with chemical techniques*; Erik Jordan, Nisene
14. *Die inspection criteria: die attributes, good photography, authentication of die, etc.*; Tom Lee
15. *Clones and ghosts*; Leon Hamiter
16. *RoHS/Pb free analysis-importance & techniques - EDAX vs XRF*; Tom Lee
17. *Comparative electronic testing with curve tracer & ABI tester*; Tom Lee

Summary & discussion

Attendees will receive a Certificate of Attendance

Comments Received from Past Workshops

- *Excellent information on how to spot counterfeits.*
- *Good criteria for supplier selection and product inspections.*
- *Outstanding photos of counterfeit components and how to spot them.*
- *More OEMs and Brokers need to understand the actions presented in this Workshop.*
- *The speakers, technical data, information and examples of counterfeits were outstanding.*
- *OEM & CM buyers and purchasing groups need to attend this Workshop.*
- *Highly informative for detecting counterfeit components.*

Registration Fees & Accommodation

Advance Registration is required. No At the Door Registrations. Registrations must be received by August 13 to assure enough attendees to hold Workshop. No charges will be made until workshop is definite. Three (3) or more from the same company, registered at the same time get a discount of \$70 each. The Registration Fee includes continental breakfast, lunch, two breaks and a copy of the Workshop Notes.

The Workshop is scheduled at the Quality Suites Hotel - John Wayne Airport. Rooms are available at a special rate \$89 + tax. Hotel provides complimentary hot breakfast & shuttle service to & from John Wayne Airport. If hotel is full, call CTI for suggestions. For hotel reservation call 714-957-9200, identify you are attending CCAW for this rate.

Register early for the lower fee and to assure a seat in Workshop.

For Workshop information call 256-536-1304 or e-mail to Leon.Hamiter34@cti-us.com

CCAW Registration Information

Quality Suites Hotel
John Wayne Airport
2701 Hotel Terrance Dr.
Santa Ana, CA 92707
714-957-9200

August 24 - 25, 2010
8:30am - 5:00pm

Name _____ Title _____
Company _____ Division _____
Address _____ M/S or Suite # _____
City _____ State/Prov _____ Postal Code _____
Country _____ Phone _____ Fax _____
Email _____

After August 13

Registration Fee advance fee \$695 _____ add \$150 _____
3 or more from same Company, at the same time - \$625 each add \$100 _____
Please send separate registration for each attendee Total _____

No At the Door Registrations.

No refunds on cancellations after August 6.

Substitutions can be made at any time.

New information has been added: How to detect reclaimed components by leads; Clones and ghost products; Performing "Due Diligence"?

Payment must accompany registration. Registrations without payment will not be processed. Company checks must be made out to Components Technology Institute, Inc. and payable in US dollars drawn on a US bank. Credit card payment requires card number, expiration date, and signature.

FAX THIS FORM TO: 256-539-8477

Payment Method: AMEX _____ VISA _____ MC _____ Check _____
Card Number: _____ Exp. Date: _____
Name on Card: _____
Signature: _____

Fax or Mail to:

CTI, Inc.

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Organized by:

Components Technology Institute Inc.