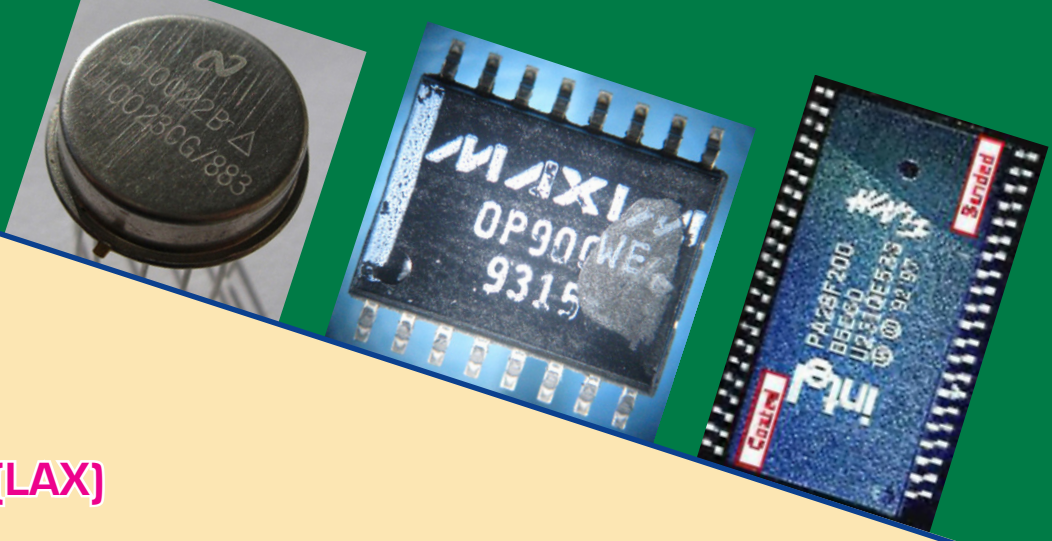


March 5, 2015
8:30 - 4:30

The Concourse Hotel (LAX)
6225 W. Century Blvd.
Los Angeles, CA



CCAT

Counterfeit

Components Avoidance

Training

*New and revised practices held in conjunction with the
CMSE Conference and Exhibition*

<http://www.cti-us.com/pdf/cmseannou15.pdf>

*For discount
Register early*

Components Technology Institute, Inc.
2608 Artie Street / Suite 4, Huntsville, AL 35805
256-536-1304 www.cti-us.com

Counterfeit Electronic Components Avoidance Training

Counterfeit electronic components entering the supply chain are causing a huge economic impact in the electronics industry. This training addresses and demonstrates practices to combat the counterfeit problem through:

Component package marking and inspection
Optical & digital microscopes for detection equipment
X-ray and XRF testing
Decapping techniques
Die inspection & authentication
Electrical testing
Issues with industry standards

Almost 1000 have attended past CTI Inc. Training Sessions in the USA and Europe.

- Counterfeit components are causing major issues in the electronics industry
- The problem is rapidly growing based on recent surveys.
- The impact can affect military, space, automotive, computer, consumer and medical electronics.
- Proper training is necessary by “real experts” in counterfeit detection.
- Be aware of copycat training without real experience.
- This training is taught by graduate EEE component engineers.

This Training is Designed for:

Procurement Professionals
Component Engineers
Supply Chain and Quality Assurance Personnel
Laboratory & Analytical Technicians
Distributor Personnel

Causes of Counterfeit Components?

- Badly needed components that have become obsolete.
- Remarking fake to look authentic
- Difficulty detecting improved counterfeit alteration characteristics.
- Long delivery times from OCM and FD.
- Huge accumulations of electronic scrap in China, etc., which source counterfeits.
- Lack of awareness and training of OEM and FD personnel in detecting counterfeits.
- Buyers searching for unreasonably low prices invite counterfeit components.
- Easy internet sales for quick delivery and low prices.

Comments Received from Past Training Classes

- *Excellent information on how to spot counterfeits.*
- *Good criteria for supplier selection and product inspections to avoid counterfeits.*
- *Outstanding photos of counterfeit components and how to spot them.*
- *More OEMs and Independent Distributors need to understand the actions presented in this Workshop.*
- *The speakers experience, 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.*
- *Best of any counterfeit training I have attended.*

Current Issues

- New detection techniques.
- Due diligence practices for OEMs and Independent Distributors.
 - The DoD FARs and DFARs
 - Authentic marking
 - Component clones
 - When and where to report counterfeits.

Counterfeit Electronic Components Avoidance Training

March 5, 2015, Los Angeles

Goal: Provide comprehensive detection procedures and training developed by experienced, graduate component engineers that are effective and cost efficient.

Counterfeit Components Avoidance Training (CCAT)

New and Revised Topics

Types of Counterfeit Components

Fake, reclaimed, remarked, rejects, stolen IP, cloned

OCMs and Authorized Distributors

Contaminated inventory returns from customers

Procurement Controls and Risks from Open Market

Purchase only from OCM/AD, obsolete from open market, pass rigid inspection and testing

OCM & AD Packaging

All components not in OCM original packaging are suspect

Equipment & Visual Inspection Examples

Microscopes, range of lenses, cameras, photos of typical rejects

Tests for Remarking with Examples

Including marking permanency and black topping

X-ray and XRF Analysis

Check internal construction for consistency & correct lead finish

Safely Decapping without Damage to Au & Cu wires

Verify construction, materials and die identification

Internal Inspection for Authenticity

Search for harvested and cloned die

Efficient Electrical Testing – Risks vs Benefits

Parameters must be carefully selected for cost control

Advanced X-ray Demonstration and use of Algorithms

Great improvements available in x-ray and algorithm for recognition

Detection of Cloning

Consists of harvested die and counterfeit manufactured die

Industry Standards and Counterfeits

The issues with AS5553, AS6081 Certification & costs, impact of the DFARS

Reporting and Disposal of Counterfeits & Suspects

Where to report and what to do with suspects & counterfeit components

Speakers: Leon Hamiter, Tom Lee, Don Trenholm and guests.

Attendees will receive a Certificate of Training

Registration & Accommodation

Advance Registration is required and space is limited. No Registrations At the Door. Three (3) or more from the same company, registered at the same time receive a discount. Advance registration expires when class is full. The Registration Fee includes continental breakfast, lunch, two breaks and a printed copy of the Training Notes. Special rates have been arranged with the Concourse Hotel, a Hyatt Affiliate, at LAX.

Register early for the lower fee and to assure a space in the training.

CCAT Registration Information

The Concourse Hotel
6225 W. Century Blvd.
Los Angeles, CA 90045

March 5, 2015
8:30am - 4:30pm

Discount date extended due to the bad weather.

Advance discount registrations must be received by Feb. 11, 2015.

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

Prior to February 11

Registration Fee	\$600 _____	\$525 _____
3 or more from same Company, at the same time -	\$550 ea. _____	\$470 _____
<i>Please send separate registration for each attendee</i>	Total	_____

No refunds on cancellations after Feb. 11, 2015. Substitutions can be made at any time.

No Registrations At the Door.

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: 256-536-1308

Payment: AMEX _____ VISA _____ MC _____ Discover _____ Check _____
Card Number: _____ Exp. Date: _____
Name on Card: _____
Billing Zip Code _____
Signature: _____

E-mail to: info8@cti-us.com
Fax to: 256-536-1308

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Organized by:
Components Technology Institute Inc.