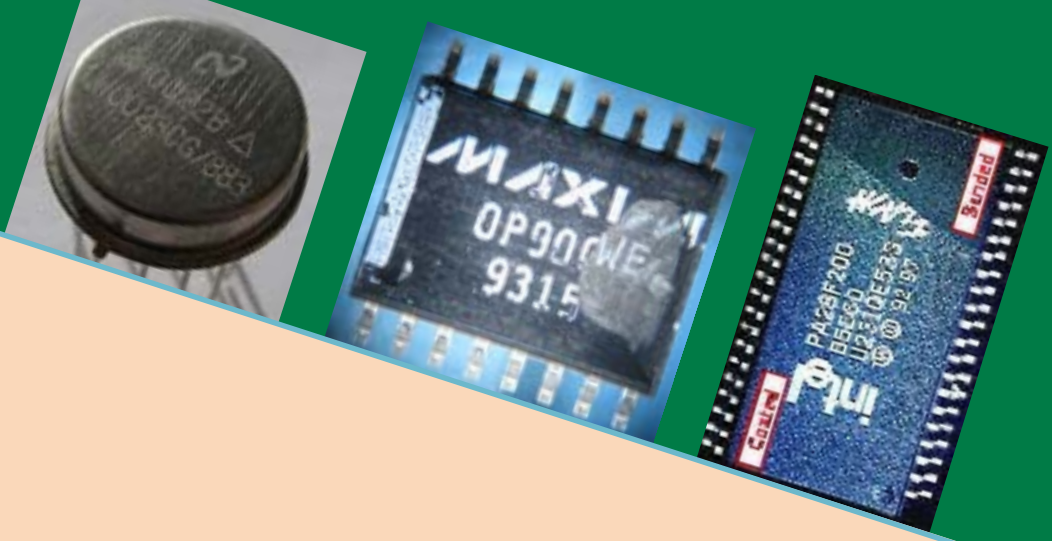




March 10, 2016

8:30 - 4:30

Sheraton Four Points

9750 Airport Rd.

Los Angeles, CA 9045

CCAT

Counterfeit

Components Avoidance

Training

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

<http://www.cti-us.com/pdf/cmseannou16.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 and attendees will receive a printed copy of the training slides.

Component package marking and inspection
Optical & digital microscopes for detection equipment
X-ray and XRF testing
Decapping techniques
Die inspection & authentication
Electrical testing - risks vs. costs
Mil spec components
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 by “real experts” in counterfeit detection.
- Be aware of copycat training without real experience.
- This training is taught by experienced 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 users and suppliers
 - Authentic marking
- Clones - Packaging and die

Counterfeit Electronic Components Avoidance Training

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

Counterfeit Components Avoidance Training (CCAT)

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 must pass rigid inspection and testing

All components not in OCM original packaging are suspect

Examples of Counterfeits

Marking, leads, die and photos of typical rejects

Equipment for Visual Inspection

Microscopes, range of lenses, cameras

Tests for Remarking

Includes scrape, marking permanency and black topping test

X-ray and XRF Analysis

Consistent internal construction & correct lead finish

Decapping

Verify construction, materials and die identification

Internal Inspection

Search for harvested and cloned die

Electrical Testing – Risks vs Benefits

Parameters must be carefully selected for effectiveness

Military Components

QPL, QML, OCM, C of C

Detection of Cloning

Consists of packaging harvested die and manufactured counterfeit die

Industry Standards

The issues with AS5553, AS6081 Certification, CCAP-101

Attendees will receive a Certificate of Training

LAX Sheraton Four Points Hotel \$125/night.

To Book Hotel: 800-529-4683

Click Here

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CCAT Registration Information

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March 10, 2016
8:30am - 4:30pm

Advance discount registrations must be received by Feb. 12, 2016.

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

Prior to Feb 12

Registration Fee	\$600 _____	\$525 _____
3 or more from same Company	\$550 ea. _____	\$475 _____
<i>Please send separate registration for each attendee</i>	Total	_____

No refunds on cancellations after Feb 12, 2016. 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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Components Technology Institute Inc.