Electronic Supply Chain Counterfeit Reporting and Avoidance

Day 1 Agenda

8:00 – 8:15 am	Welcome and Introductions
8:15 – 10:00 am	2024 counterfeit reporting data from ERAI Case Study: Cisco Networking Equipment
10:00 – 11:00 am	A Historical Overview of Counterfeit Electronic Part Activity: The Risk, Response, and Solution • What is a counterfeit electronic part? • Government response to counterfeit electronic parts. • Industry response to counterfeit electronic parts. Workshop: Writing a standard to mitigate counterfeit parts
11:00 – 12:00 am	Understanding the Global Electronics Supply Chain and How Counterfeits Enter the Supply Chain • Definition of the tiers of suppliers in the electronic supply chain (OCM, AD, ID, Broker) • Electronics supply chain statistics from the Bureau of Industry and Security study Case Study: Misrepresented QPL Parts
	Lunch
1:00 – 2:30 p.m.	Understanding the Global Electronics Supply Chain and How Counterfeits Enter the Supply Chain *(continued)* • Risk levels associated with each tier • Definition of the tiers of customers in the electronic supply chain (OEM, CM) • Supply chain transactions and their vulnerabilities Case Study: Counterfeit electromechanical relays and switches sold by an unauthorized distributor in Shenzhen, China

2:30 – 5:00 pm.	Counterfeit Inspection and Testing of Electronic Parts: Test Methods Overview
	    o General External Visual Inspection (Workshop)
	    o Detailed External Visual Inspection (Workshop)
	    o Remarking and Resurfacing (Workshop)
	Workshops in this section will review electronic component images from ERAI's database and discuss the failure criteria.

Case Studies will review several recent counterfeit incidences and discuss the root cause of the delivery of the counterfeit part and best practices that should be implemented to prevent this occurrence in the future.

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Day 2 Agenda

8:00 – 10:00 am	Counterfeit Inspection and Testing of Electronic Parts: Test Methods Overview (*Continued*)
	    o X-Ray Fluorescence
	    o Radiological Inspection (Workshop)
	    o Delid/Decapsulation Physical Analysis (DDPA)
	    o Electrical Test Methods
	• Flow of the testing protocol
	• Overview of Test Reports
	   Workshop: Review redacted test reports
	• Internal Labs versus Third Party Labs
	• Review of published standards for counterfeit mitigation
	   Workshops in this section will review electronic component images from ERAI's database and discuss the failure criteria

10:00 – 12:00 am	Industry Response to Counterfeits: An Overview of the Industry Standards • Standards Setting Organizations • Standards Developed for Manufacturers and Integrators • Standards Developed for Distributors • Standards Developed for Counterfeit Detection Test Methods • Application of Standards within your Organization
	Lunch

1:00 – 3:00 p.m.	Best Practices review for the following processes:
	• Documented Policy
	• Training
	• Supply Chain Traceability
	   Case Study: Misrepresented Parts
	• Purchasing/Contract Review
	   Case Study: Counterfeit Parts
	• Verification of Purchased Product
	   Case Study: Falsified Test Report
	• Control of Nonconforming Material (Quarantine and Disposition)
	• Reporting

3:00 – 5:00 p.m.	Risk Assessment and Risk Mitigation to ensure counterfeit electronic parts are not purchased, sold or installed Case Study: Wire Fraud and Trafficking in Counterfeit Goods

Case Studies will review several recent counterfeit incidences and discuss the root cause of the delivery of the counterfeit part and best practices that should be implemented to prevent this occurrence in the future.