

NRC INFORMATION NOTICE 2012-22, "COUNTERFEIT, FRAUDULENT, SUSPECT ITEM (CFSI) TRAINING OFFERINGS"

Table 1. List of CFSI-Related Training Offerings

1.0 AMERICAN BEARING MANUFACTURERS ASSOCIATION (ABMA)

Web site: <http://www.americanbearings.org/news/74150/>

Contact: Scott Lynch
 ABMA Anti-Counterfeiting Committee
 2025 M Street, NW, Suite 800
 Washington, DC 20036-3309
 Phone: 202-367-1155
 E-mail: info@americanbearings.org
slynch@americanbearings.org

1.1 World Bearing Association (WBA) Anti-Counterfeiting Video

The WBA has released a video titled "Stop Fake Bearings", (<http://www.stopfakebearings.com/#/start>) to further educate the bearing supply chain community and consumers about the problems and safety concerns associated with counterfeit bearing products.

Focus: General introduction

Cost: Free

1.2 Customs Training Seminars

ABMA's Customs Education Seminar has educated U.S. Customs and Border Protection (CBP) agents and import specialists, Intellectual Property Rights (IPR) Center staff, U.S. Immigration and Customs Enforcement (ICE) officials, and criminal research specialists on the issues surrounding counterfeit bearings, leading to more effective enforcement at the borders and additional partnership opportunities.

Focus: Law enforcement, customs and border patrol agents, import specialists, criminal research specialists

Cost: Fee. Open to Law Enforcement

2.0 The ASSOCIATION FOR OPERATIONS MANAGEMENT (APICS)—APICS is an international source of knowledge for operations and supply chain management professionals since 1957. It provides training, internationally recognized certifications, and comprehensive educational resources in production, inventory, materials management, purchasing, logistics, and more.

Web site: <http://www.apics.org/risk>

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Contact: pdadmin@apics.org

APICS: The Association for Operations Management
8430 West Bryn Mawr Ave., Suite 1000
Chicago, IL 60631
Phone: 800-444-2742
773-867-1777 (APICS customer service)
Fax: 773-639-3000
E-mail: services@apics.org

Cost: Fee. Open to non-APICS members

2.1 APICS Risk Management Certificate

This course prepares participants to lead risk-management activities or participate in the development of global risk-mitigation strategies while gaining an understanding of critical risk management. Certification requires 12 educational contact hours in core and elective risk management topics, which can be earned by attending five sessions on the Risk Management learning path. APICS tends to offer these classes at its international conferences and expos (5 hours) and participation in one of the following to complete the remaining 7 hours:

Focus: Assisting supply chain professionals at all levels of an organization consisting of:

- (a) a combination of risk sessions at future educational events
- (b) APICS Risk Management Seminar (7 hours)
- (c) pre-approved risk management education sessions at partner events

Cost: Various

3.0 **ATKINS (Member of the SNC-Lavalin Group):** Atkins is an international company and a worldwide provider of safe recycling, processing, and disposal of nuclear material. They provide innovations and technologies to the U.S. Department of Energy (DOE), commercial utilities, and medical and research facilities.

Web site: <http://www.atkinsglobal.com/>

Contact: Roger Moerman, CFSI Consultant
Counterfeit/Fraudulent Training
2345 Stevens Drive Suite 240
Richland, WA 99354 United States of America
Phone: 509-528-6771
E-mail: rdm_2535@msn.com

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3.1 Suspect/Counterfeit/Fraudulent/Substandard Item Detection Training Workshops

ATKINS offers onsite training workshops that cover all aspects of counterfeit and fraudulent item detection and prevention. The workshops introduce the participant to these growing issues through hands-on training with actual hardware parts and materials common to the work place, and in some cases to the home.

Focus: Senior management, supply chain managers, purchasing managers, procurement personnel, material analysts, engineering personnel, procurement engineers receipt inspectors, Quality Assurance/Quality Control (QA/QC) managers and inspectors, craft and installers, investigators, vendor auditors and inspectors, suppliers and vendors

Cost: Fee

4.0 **BERI ASSOCIATES (USA) INC** — Beri Associates is comprised of several industry experts available to assist organizations or companies looking to improve or expand business goals, processes, and advertisement needs.

Web site: <http://www.berassociates.com/>

Contact: Shamsheer (Sham) Beri
611 NW Fremont St.
Camas, WA 98607
Phone: 360-608-7454
Fax: 360-210-4355
E-mail: shamberi@aol.com

4.1 Understanding Counterfeit, Fraudulent, and Suspect Items (CFSI)

This interactive course presents the regulatory basis, the Nuclear Procurement Issues Committee (NUPIC) expectations, as well as a practical program to mitigate CFSI risk in the supply chain. It assists attendees in understanding the issues to develop a comprehensive approach to combat domestic and international CFSIs.

Focus: Procurement personnel, engineers, material analysts, receipt inspectors, QA personnel, procurement engineers, investigators

Cost: Fee

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5.0 **CENTER FOR ADVANCED LIFE CYCLE ENGINEERING (CALCE)—**
UNIVERSITY OF MARYLAND (UMD)

Web site: <https://calce.umd.edu/contact>

Contact: Dr. Michael Pecht, Professor, Director of CALCE
University of Maryland
Bldg. 89, Room 1103
University of Maryland
College Park, MD 20742
Phone: 401-405-5323
E-mail: pecht@calce.umd.edu
education@calce.umd.edu

Dr. Digmata Das
Phone: 301-405-5323
E-mail: digudas@calce.umd.edu

5.1 Counterfeit Electronics

This course covers authentication techniques used and developed to make counterfeiting of electronics more difficult. It includes overt and covert methods of authentications. The course closes with specific suggestions and recommendations on how to protect your supply chain, including how to select distributors and monitor suppliers. It also makes recommendations to the electronic part manufacturers, regulators, government enforcement, and procurement agencies on how to reduce risks from counterfeit electronic parts.

Focus: Receipt inspectors, QA/QC inspectors, vendor inspectors and auditors, investigators, procurement personnel, procurement engineers

Cost: Fee

6.0 **CRITERION SOLUTIONS GROUP, LLC**—Criterion Solutions is a Florida-based, limited liability corporation (LLC) that provides QA/QC support services to the commercial nuclear industry, including commercial-grade item (CGI) dedication training and CFSI training.

Web site: <https://www.criterionsolutionsgroupllc.com/Home.html>

Contact: Michael Morgan, Manager, Owner
Criterion Solutions Group, LLC
2035 Village Lane
Fernandina Beach, FL 32034
Phone: 904-556-1093
E-mail: criterionsolutions@att.net

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6.1 Counterfeit, Fraudulent, and Suspect (CFS) Component Mitigation

This computer-based course usually is presented as an extra subject element to Criterion Solution's commercial-grade item (CGI) dedication course. The course and training presents the NRC regulatory elements and NUPIC industry standards and expectations "in play" in the industry's efforts to reduce the risk of counterfeit, fraudulent, and suspect component entry into the nuclear supply chain. The course is presented by a retired government nuclear inspector and current N45.2.23-certified trainer and auditor. The course is offered either at Criterion Solution's home site (Amelia Island, Florida) or, if desired, at the customer's site. This LLC Florida State-certified course provides students with a basic (overall) understanding of CFS component issues and elements. It also presents practical approaches to assist students in spotting and mitigating or eliminating CFS components from the nuclear supply chain. Over 50 percent of the course is "hands-on" training.

Focus: Senior management, supply chain managers, purchasing managers, procurement personnel, material analysts, engineering personnel, procurement engineers receipt inspectors, QA and QC managers and inspectors, craft and installers, investigators, vendor auditors and inspectors, suppliers and vendors

Cost: Fee

7.0 **DEFENSE ACQUISITION UNIVERSITY (DAU)**—U.S. Department of Defense (DOD).

Web site: <https://www.dau.mil/>

Contact: Defense Acquisition University
9820 Belvoir Rd.
Fort Belvoir, VA 22060
Phone: 703-805-3459
866-568-6924 (toll free within the USA)
E-mail: dauhelp@dau.mil

7.1 Preventing Counterfeit Parts from Entering DOD Supply System

Designed to allow participants to learn about different types of commercial and industry nonconforming, suspect, and counterfeit items; how these items are entering into the commercial and DOD supply chains; the economic impact these items have; and how to develop basic skills for identifying possible nonconforming and suspect counterfeit items.

Focus: DAU personnel, Government employees, DOD personnel, DOD contractors

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Cost: Free (some information is publicly available online)

8.0 **DEFENSE CYBER INTELLIGENCE TRAINING ACADEMY (DCITA)** — DCITA develops and delivers cyber investigation training courses for DOD organizations, defense criminal investigative organizations (DCIOs), military counterintelligence agencies, and law enforcement organizations.

You must meet the following two criteria to be eligible to attend DCITA training courses:

- (1) You must be assigned to a U.S. Government agency or be an official representative of a Government that has an existing memorandum of understanding with the U.S. Government for computer training.
- (2) You must be working in one of the following fields or positions:
 - Federal law enforcement
 - counterintelligence
 - Inspector General
 - computer forensics examiner

NOTE: This is a fee-based curriculum. If you meet the above eligibility criteria and would like information about the courses, please contact the DCITA registrar by phone or e-mail.

Web site: <https://www.dcita.edu/>

Contact: The Defense Cyber Investigations Training Academy Registrar
Phone: 410-981-1160, 410-981-1165
01-410-981-1165 (**International**)
Fax: 410-850-8936
E-mail: DCITA@dc3.mil

9.0 **DIMINISHING MANUFACTURING SOURCES AND MATERIAL SHORTAGES (DMSMS)**—The DMSMS Knowledge Sharing Portal (DKSP) is a nonbiased one-stop provider of DMSMS-related information, resources, and material to empower the DoD community, both organic and industrial, to implement best practices for monitoring, tracking, resolving, and performing analytical logistic and engineering analysis related to obsolescence impacts. The DKSP facilitates optimal resolution, test, parts management, and design, upgrade and redesign methodologies, thereby minimizing detrimental weapons systems readiness resulting from DMSMS and obsolescence impacts. It is geared for procurement personnel, material analysts, receipt inspectors, QA and QC personnel, procurement engineers. Some offerings are fee based and others are free (publicly available).

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Web site: <https://www.dau.mil/cop/dmsms/Pages/Default.aspx>

Contact: Defense Acquisition University
DAU-GLTC
9820 Belvoir Rd.
Ft. Belvoir, VA 22060-5565
Phone: 703-805-3459 (DAU Information Systems Service Center)
E-mail: issc@dau.mil

10.0 **ELECTRIC POWER RESEARCH INSTITUTE (EPRI)** — an independent, nonprofit research and training organization for the electric power industry.

Web site: <https://www.epri.com/>

Contact: Marc Tannenbaum, Technical Executive
EPRI Charlotte
1300 W.T. Harris Blvd.
Charlotte, NC 28262
Phone: 704-595-2536; 704-595-2609
E-mail: mtannenbaum@epri.com

10.1 Practical Training in Preventing Counterfeit, Fraudulent, Suspect, and Substandard Items from Use in Nuclear Power Plants

This training provides an overview of EPRI guidance on counterfeiting and fraud, as well as a "hands-on" training session that includes many examples of counterfeit hardware, along with information on their authentic counterparts.

Focus: Procurement personnel, material analysts, receipt inspectors, QA and QC personnel, procurement engineers, investigators, craft personnel

Cost: Fee

10.2 Nuclear Vendor Procurement Training

This course is designed to communicate basic nuclear procurement concepts and methods to organizations that provide items and services to member utilities. It presents an overview of basic nuclear utility procurement concepts and provides guidance on performing commercial-grade item dedication from the perspective of a nuclear vendor. A module on counterfeit and fraudulent items is included.

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Focus: Procurement personnel, material analysts, receipt inspectors, QA and QC personnel, procurement engineers, investigators

Cost: Fee

10.3 Counterfeit, Fraudulent, Substandard Items, EPRI No. 3002007381–Version 2.0 (Computer Based)

This software is a computer-based training course that captures and communicates commercial nuclear industry-specific concepts to the end user and assesses their skills. The course includes modules that describe counterfeit, fraudulent, and substandard items; identifies the risks they present; and describes actions that can be implemented to reduce risk.

Focus: Plant management, procurement personnel, material analysts, receipt inspectors, QA personnel, procurement engineers, investigators

Cost: Fee

10.4 Report: "Counterfeit, Fraudulent, and Substandard Items: Mitigating the Increasing Risk," Revision 1, EPRI, Palo Alto, CA, EPRI 3002002276, EPRI No. 1019163, Rev. 1

This report summarizes insights gleaned by an industry technical advisory group (TAG) that researched the techniques that U.S. Government agencies, similar industries, and manufacturers use to combat the growing problem of counterfeit and fraudulent items. The report provides guidance to commercial nuclear licensees that want to implement measures to prevent counterfeit items from being introduced into their inventory and facilities to address related issues communicated in NRC IN 2008-04, "Counterfeit Parts Supplied to Nuclear Power Plants," dated April 7, 2008 (ML093620098).

Focus: Plant management, procurement personnel, material analysts, receipt inspectors, QA and QC personnel, procurement engineers, investigators

Cost: Free

10.5 Report: "Counterfeit and Fraudulent Items: A Self-Assessment Checklist." EPRI, Palo Alto, CA, October 2010. No. 1021493

This self-assessment checklist is for licensees and their suppliers to use as a vehicle for identifying opportunities to reduce the risk associated with counterfeit and fraudulent items. Organizations that use the checklist can increase the probability that counterfeit and fraudulent items will be detected before accepted for use, used in manufacturing, or installed in plant systems and equipment.

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Cost: Free

- 11.0 **ERAI.** ERAI is a reporting and investigation service to the electronics industry, providing information and risk mitigation solutions to electronics professionals worldwide. ERAI is comprised of government prime contractors and subcontractors, original equipment manufacturers, distributors (franchised and independent), contract manufacturers, government agencies, and associations serving the industry. ERAI provides its members with in-depth information on counterfeit, substandard, and high-risk parts and suppliers of those parts.

Web site: <http://www.era.com/>

Contact: info@era.com

Mark Snider, Founder and President
 ERAI, Inc.
 3899 Mannix Dr., Unit 421
 Naples, FL 34104
 Phone: 239-261-6268
 Fax: 239-261-9379
 E-mail: Mark@era.com

Kristal Snider, Vice President
 E-mail: ksnider@era.com

11.1 ERAI Solutions for Counterfeit and High Risk Parts—The Enemy Within

This presentation provides a general historical perspective of the counterfeit electronics problem followed by a demonstration showing how ERAI's service works to identify, isolate, and report organizations that have repeatedly failed to detect and avoid counterfeit and nonconforming parts.

Focus: Supply chain management, procurement personnel, material analysts, receipt inspectors, QA and QC inspectors, QA managers, vendor auditors and inspectors, procurement engineers, field engineers, investigators, suppliers and vendors

Cost: Fee

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- 12.0 **FEDERAL LAW ENFORCEMENT TRAINING CENTER (FLETC)**—U.S. Department of Homeland Security (DHS). FLETC serves as a U.S. Government, interagency law enforcement training organization for 90 Federal agencies. It also provides services to State, local, Tribal, and international law enforcement agencies and support personnel. FLETC's headquarters is in Glynco, GA.

Web site: <http://www.fleetc.gov/>

Contact: Faustino Gonzalez, Senior Instructor
FLETC
Financial Fraud Institute, Investigative Operations Division
Phone: 912-554-4436
E-mail: Faustino.Gonzalez@dhs.gov

12.1 Product Substitution Investigations

This 4.5-day program focuses on product substitution, which is a type of procurement fraud. These investigations require knowledge of the Government procurement process to identify the procurement documentation and contract requirements, which supports these allegations.

Focus: Investigators (both criminal and noncriminal), auditors, inspectors, analysts, prosecutors

Cost: Fee

12.2 Procurement Fraud

This 8-day program was designed at the request of the Attorney General's National Procurement Fraud Task Force Training Committee. These investigations require an understanding of the Government procurement process to identify where in the procurement cycle the alleged violations have occurred and what documents are required to support these allegations.

Focus: Investigators (both criminal and noncriminal), auditors, inspectors, analysts, prosecutors

Cost: Fee

- 13.0 **GLOBAL INTELLECTUAL PROPERTY ACADEMY (GIPA)**—U.S. Department of Commerce (DOC), U.S. Patent and Trademark Office (USPTO). The academy offers capacity building programs in the United States and around the world on intellectual property protection, enforcement, and capitalization.

Web site: <http://www.uspto.gov/>

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Contact: Customer Support Centers:
 Phone: 571-272-1000 (local); 571-272-9950 (TTY)
 1-800-786-9199 (toll-free)

<http://www.uspto.gov/patents/resources/index.jsp#heading-3>
<http://www.uspto.gov/ip/events/index.jsp>

Focus: Prosecutors, law enforcement, customs officials, foreign policy makers, intellectual property rights holders, suppliers and vendors

Cost: Free public education "road-shows"
 Note: Some information is publicly available online

- 14.0 **GLOBAL QUALITY ASSURANCE, INC.** Global Quality Assurance, Inc., (GQA) offers quality assurance training to the commercial nuclear power industry, including CFSI topics, throughout the year in Orlando, FL, or at a location of your choice.

Web site: <http://www.globalqualityassurance.com/>

Contact: Deborah Borland, Owner/Chief Executive Officer (CEO)
 11602 Lake Underhill Rd., Suite 106
 Orlando, FL 32825
 Phone: 888-322-3330 (Office); 352-422-7200 (Cell)
 E-mail: dborland@gqainc.com
TRAINING@gqainc.com

14.1 Counterfeit, Fraudulent, and Suspect Items

This CFSI training program ensures participants understand the impact of CFSIs and the tactics most often used to evaluate risk factors; understand the impact and considerations for mechanical, electronic and electrical components; identify internal process weaknesses and enhance procurement and inspection techniques to avoid and identify CFSIs.

Focus: Supply chain management, procurement personnel, material analysts, receipt inspectors, QA managers, QA and QC inspectors, procurement engineers, investigators, suppliers and vendors

Cost: Fee

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15.0 **INDEPENDENT DISTRIBUTORS OF ELECTRONICS ASSOCIATION (IDEA)—**

A nonprofit trade association providing educational tools for quality inspection and counterfeit mitigation of electronic components. These courses provide beneficial content for a number of professionals in the electronics industry, including management, component engineering, procurement, quality assurance, and inspection personnel. The curriculum is based upon IDEA-STD-1010 as well as the IDEA-SG-2020 Study Guide in preparation for the [IDEA-ICE-3000 Professional Inspector Certification Exam \(ICE\)](#).

Web site: <http://www.idofea.org/solutions/training-program>

Contact: Tom Sharpe, Senior Board Member
SMT Corporation
14 High Bridge Rd.
Sandy Hook, CT 06482
Phone: 203-270-4705
E-mail: tsharpe@smtcorp.com

IDEA
6312 Darlington Ave.
Buena Park, CA 90621

15.1 IDEA Counterfeit Mitigation and Inspection Training Course (Course #: IDEA-ANM-12)

The course provides an introduction to IDEA-STD-1010, "Acceptability of Electronic Components Distributed in the Open Market," and provides training in methods for the visual detection of counterfeit and substandard characteristics of electronic components. The training environment provides a unique opportunity to examine real components with live, onsite microscopic magnification to obtain experience in the visual inspection techniques of IDEA-STD-1010 and learn how to detect counterfeit components firsthand.

In addition to public training events, IDEA also offers site-specific courses. For more information about a private course at your location, e-mail your inquiry to info@idofea.org

Focus: Senior management, supply chain managers, purchasing managers, procurement personnel, material analysts, engineering personnel, procurement engineers receipt inspectors, QA and QC managers and inspectors, technicians, craft and installers, investigators, vendor auditors and inspectors, suppliers and vendors

Cost: Fee

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15.2 Acceptability of Electronic Components Distributed in the Open Market

The course presents IDEA-STD-1010-B, the first inspection standard that addresses the needs for the inspection of electronic components traded in the open market. This standard is a must for quality assurance and inspection departments. IDEA-STD-1010 documents industry-accepted quality criteria for electronics components and contains full-color photographs. Topics include terms definitions. Magnification aids and lighting, product handling, packaging, packing, and storage, about the open market electronic components industry, product inspection, equipment and tools, moisture sensitivity handling precautions, photographing parts, reduction of hazardous substances (RoHS), and much more are presented.

Focus: Procurement personnel, material analysts, engineering personnel, procurement engineers receipt inspectors, QA and QC inspectors, technicians, craft and installers, investigators, vendor auditors and inspectors, suppliers and vendors

Cost: Fee

15.3 IDEA-ICE-3000 Professional Inspector Certification Exam

The IDEA-ICE-3000 Professional Inspector Certification Exam is designed to demonstrate inspection competency and resource ability of the inspector.

Focus: Electronics receipt inspectors, material analysts, QA and QC personnel, technicians, suppliers and vendors

Cost: Fee

16.0 **INTERNATIONAL ANTI-COUNTERFEITING COALITION (IACC)**—A nonprofit organization devoted solely to combating product counterfeiting and piracy. IACC helps individuals find intellectual property law firms, investigative agencies, and product security firms.

Web site: <https://www.iacc.org/>

Contact: Angelo Mazza, Attorney
Gibney, Anthony & Flaherty, LLP
Phone: 212-705-9841, 212-705-9801
E-mail: aepmazza@gibney.com

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16.1 The IACC has developed several different formats for training sessions to meet the needs of law enforcement. Working together with brand holders and investigators, the sessions vary from trade fairs for time-pressed organizations to half- and full-day sessions with speakers and panels based on local needs. Many local sessions are coordinated with a local member investigator to ensure that attendees and speakers provide strong presentations on relevant case issues.

Focus: Senior management, supply chain managers, purchasing managers, procurement personnel, material analysts, engineering personnel, procurement engineers receipt inspectors, QA/QC managers and inspectors, craft and installers, investigators, vendor auditors and inspectors, suppliers and vendors, patent holders, customs agents, law enforcement

Cost: Fee

17.0 National Intellectual Property Rights Coordination Center (IPR Center)

U.S. Department of Homeland Security, Immigration and Customs Enforcement, Homeland Security Investigations, IPR Center is a joint Federal agency task force, the IPR Center uses the expertise of its member agencies to share information, develop initiatives, coordinate enforcement actions, and conduct investigations related to intellectual property theft and commercial fraud. Through this strategic interagency partnership, the IPR Center protects the public's health and safety, the U.S. economy, and the Nation's warfighters. The IPR Center offers counterfeiting introductory lectures, which are subject to resource availability. Training sessions currently offered by the IPR Center are free to the public and appropriate for all levels of an organization including: senior management, supply chain managers, purchasing managers, trademark holders, customs agents, investigators, law enforcement, suppliers and vendors, importers and exporters.

Web site: <http://www.iprcenter.gov/>

Contact: Homeland Security Investigations
National IPR Coordination Center
2451 Crystal Dr.
Arlington, VA 20598
E-mail: IPRCenter@dhs.gov, or
operationchainreaction@ice.dhs.gov

17.1 National Intellectual Property Rights Coordination Center (IPR Center) – Supply Chain Training

U.S. Department of Homeland Security, Immigration and Customs Enforcement, Homeland Security Investigations, IPR Center's Operation Chain Reaction (OCR) is a joint agency task force that conducts ongoing training to government and industry personnel on counterfeits or non-conforming parts entering the Department of Defense

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and other government agencies' supply chains. Partnering government agencies work together to merge their legal authorities to strengthen and coordinate investigative leads. OCR outreach and training presents the exposure and dangers of counterfeit goods, support resources, administrative actions, incident reporting guidance, and successes stories. See: <https://www.iprcenter.gov/file-repository/ipu-operation-chain-reaction.pdf/view>

Focus: Department of Defense, Other Government Agencies, Industry

Cost: Free

17.2 National Intellectual Property Rights Coordination Center (IPR Center) – Acquisition Training

U.S. Department of Homeland Security, Immigration and Customs Enforcement, Homeland Security Investigations, IPR Center offers Acquisition Training to provide procurement professionals with the knowledge and skills needed to combat the counterfeit threat in the workplace. Participants will be provided a toolbox of knowledge and strategies to; understand the threats posed by counterfeits; mitigate the purchase and distribution of counterfeits; identify counterfeits; and report counterfeits. See: <https://www.ice.gov/news/releases/ipr-center-launches-training-secure-supply-chains-and-combat-counterfeit-goods>

Focus: Acquisitions and receipt inspection personnel and business owners

Cost: Free

18.0 **INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA)** - The IAEA is the world's center of cooperation in the nuclear field. It was set up in 1957 as the world's "Atoms for Peace" organization within the United Nations family. The agency works with its member States and multiple partners worldwide to promote safe, secure, and peaceful nuclear technologies.

Web site: <http://www.iaea.org/>

Contact: sales.publications@iaea.org

18.1 IAEA-TECDOC-1169 "Managing Suspect and Counterfeit Items in the Nuclear Industry"

This publication assists organizations in developing and implementing quality assurance policies, programs, procedures, and practices to eliminate the hazards created by suspect and counterfeit items that are present in nuclear facilities and to prevent the introduction of suspect and counterfeit items.

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Cost: Free online at <https://www-pub.iaea.org/books/iaeabooks/6069/Managing-Suspect-and-Counterfeit-Items-in-the-Nuclear-Industry>

19.0 **J-E-T-S CONSULTANTS** - A provider of QA and audit training to the nuclear industry, for more than 30-years. Clients for training, consulting, and independent assessment/audit include over 100 commercial and governmental organizations in 18 countries worldwide.

Web site: <https://jetsquality.com/>

Contact: John H. Johnson
J-E-T-S, Inc.
 18305 Invergordon Lane
 Cornelius, NC 28031
 Phone: (704) 987-9858
 E-mail: john@jetsquality.com

19.1 Counterfeit/Fraudulent/Suspect Item Training:

A one-day program, providing the knowledge and skills needed to understand, identify, and prevent introduction of Counterfeit/Fraudulent/Suspect Items (CFSI). This program reviews NRC and DOE directives and guidance including CFRs; DOE O414.1; and NRC Generic Letters, Information Notices, and Regulatory Issue Summaries. Using workshops, discussion, and actual hands-on examples, the following topics are covered:

- Review terminology, history, scope of what they are and how they get introduced
- Review operating experience and examples of CFSI in the nuclear industry and other industries (Defense, Aerospace, Automotive, etc.)
- Discuss key methods of identification of CFSI with hands-on examples
- Includes mechanical, structural, electrical, electronic, digital
- Discuss methods and processes to prevent introduction and new industry initiatives to identify substandard or counterfeit items
- Describe risk mitigation strategies for dispositioning CFSI

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Focus: Specification writers/engineers, procurement engineers and other procurement personnel, quality control/assurance personnel, technical/installation personnel, receipt inspectors, suppliers

Cost: Fee

19.2 Commercial Grade Dedication Workshop:

This one-day workshop uses the latest NRC, DOE, and industry information to lead attendees through a proven process resulting better understanding of CGD requirements and implementation. This is not a lecture-based program – it's a workshop where attendees actively participate to find solutions using references and examples built from real experience to ensure commercially-dedicated items are not counterfeit/suspect and perform as required. This program improves understanding of CGD challenges through the following:

Review of commercial grade item history and use in the nuclear industry

Terminology, with significant terms defined as currently interpreted

- *Code of Federal Regulations* (CFR), U.S. Nuclear Regulatory Commission (NRC), U.S. Department of Energy (DOE), American Society of Mechanical Engineers (ASME) Nuclear Quality Assurance Program (NQA-1), and industry documents for CGD
- Methods of acceptance for commercial items and preventing counterfeit/suspect
- How to survey commercial suppliers and who should do it
- NUPIC/NIAC forms and checklists and third-party evaluations for CGD
- ISO-9001, ISO-17025, ILAC, and ASME interfaces with CGD
- EPRI and NRC documents for CGD, including new Information Notices

Focus: Engineers, procurement personnel, procurement engineers, quality control/assurance personnel, technical/installation personnel, receipt inspectors, suppliers

Cost: Fee

20.0 **LEHIGH UNIVERSITY, CENTER FOR VALUE CHAIN RESEARCH (CVCR)**—Lehigh is a private research institution with more than 4,700 undergraduate and 2,000 graduate students. The CVCR provides a multidisciplinary approach to value chain research and education, creating opportunities for innovation by integrating analytical and quantitative engineering approaches with process-driven and field-based business research. The center pursues a broad range of knowledge creation and dissemination activities, with the aim of providing an umbrella under which researchers and practitioners can both understand and advance the cutting-edge knowledge in value- and supply-chain management.

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Web site: <https://cbe.lehigh.edu/centers/lehigh-center-for-supply-chain-research>

Contact: Lehigh University
Rauch Business Center
621 Taylor St.
Bethlehem, PA 18015
Phone: 610-758-5157
E-mail: cvcr@lehigh.edu

Dr. Robert J. Trent, Ph.D.
Director, Supply Chain Management Program
Lehigh University
Phone: 610-758-4952
E-mail: Rjt2@lehigh.edu

Gregory L. Schlegel, CPIM, CSP, Jonah
Executive-in-Residence, Center for Value Chain Research
Adjunct Professor, Supply Chain Research
Lehigh University, Graduate Program
Phone: 908-237-9186
E-mail: grs209@lehigh.edu
gschlegel@shertrek.com
www.shertrack.com

APICS—The Association for Operations Management
8430 West Bryn Mawr Ave., Suite 1000
Chicago, IL 60631
800-444-2742 or 773-867-1777 (APICS Customer Service)
Fax: 773-639-3000
E-mail: services@apics.org

20.1 Managing and Mitigating Risk in Supply and Operations

This course prepares the participant to lead risk management activities or to participate in the development of global risk mitigation strategies while gaining an understanding of critical risk management. Topics include:

- supply chain risk management and continuity planning
- strategies for supply chain management in a developing country
- accurately evaluating supplier performance and risk
- globalization: a world of opportunities
- the emerging discipline of supply chain risk management

Focus: Assisting supply chain professionals at all levels of an organization.

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Cost: Fee—open to non-APICS members

- 21.0 **MARYLAND CYBERSECURITY CENTER (MC²)** — a public research university (University of Maryland) focused on industry professionals. The Maryland Cybersecurity Center provides unique, hands-on educational experiences, emphasizing a "teaching hospital" model. Cybersecurity practitioners will have the opportunity for unique engagement in cybersecurity education, experiencing real-world data monitoring through MC²'s innovative approach. MC²'s fee based courses are well suited for government personnel, industry, consumers, investigators, suppliers and vendors.

Web site: <http://www.cyber.umd.edu/>

Contact: Eric Chapman, Associate Director
 Primary Areas: Policy, legislation, corporate, and government partnerships
 Phone: 301-405-7136

E-mail: echapman@umd.edu

- 22.0 **MICHIGAN STATE UNIVERSITY** - The Center for Anti-Counterfeiting and Product Protection (A-CAPP) is an independent, interdisciplinary evidence-based hub, offering research, educational programs, information, and partnership opportunities designed to assist in protecting brands and products of all industries worldwide.

Product counterfeiting accounts for upwards of hundreds of billions of dollars in global trade and wreaks dire global health, safety and economic consequences on individuals, corporations, governments and society. Brand owners, government agencies, professional associations, and others all share in the challenge of responding to counterfeit goods and product protection issues.

A-Capp offers various research and educational resources to academia, public & private technology development teams, and all levels of supply chain management in the following [supply chain categories](#):

Analytics	Law, Regulations, and Standards
Brand Protection Professional	Nature of Counterfeiting
Consumer Behavior and Attitude	Supply Chain Integrity
E-Commerce and the Internet	Technologies & Packaging
Education & Awareness	Total Business Solution
Investigation & Enforcement	Victimization

Website: <http://a-capp.msu.edu/>

Contacts: Kari Kammel, Esq.
 Assistant Director, Education & Outreach

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Center for Anti-Counterfeiting and Product Protection
 Michigan State University
 1407 South Harrison Road, Suite 350B
 East Lansing, MI 48823
 (517) 353-2163 (o)
 (773) 715-8169 (c)
kkammel@msu.edu

23.0 **NASA ACADEMY OF AEROSPACE (NASA) QUALITY (AAQ)**—NASA, in conjunction with Auburn University.

Web site: <http://aaq.auburn.edu/>

Contacts: Dr. Alice E. Smith, PH.D., P.E.
 Professor of Industrial and Systems Engineering Auburn Univ.
 3301 Shelby Center
 Auburn University, AL 36849
<http://www.eng.auburn.edu/sites/personal/aesmith/>
 Phone: 334-844-1460
 E-mail: smithae@auburn.edu

Dr. Jeffrey S. Smith, Professor
 Phone: 334-844-1412
 E-mail: smitjef@auburn.edu

23.1 Counterfeit Parts Training Module

The NASA AAQ is an Internet-based forum for providing quality assurance (QA) training to academics involved in aerospace research, technology development, and payload design and development. The NASA AAQ curriculum includes modules for all aspects of quality assurance necessary to ensure project success and provides a virtual community for networking and sharing of lessons-learned among like-minded scholars.

Focus: Academia, technology development, aerospace research

Cost: Free (All information available online – open access)

24.0 **NATIONAL SPACE AND AERONAUTICAL ASSOCIATION (NASA), JET PROPULSION LABORATORY (JPL)**—A joint venture in association with California Institute of Technology (CALTECH).

Web site: <https://mttc.jpl.nasa.gov/>

Contact: Tony Gutierrez

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Quality Initiatives Program
NASA – Jet Propulsion Laboratory
(818) 393-7387
Tony.Guitierrez@jpl.nasa.gov

NASA/JPL Western Region - Manufacturing Technology Transfer Center (MTTC),
4800 Oak Grove Dr.
MailStop 83-204
Pasadena, CA 91109-8099
(818) 354-6730

NASA/JPL Eastern Region - Manufacturing Technology Transfer Center (MTTC),
Goddard Flight Center
Greenbelt, Maryland

24.1 Counterfeit Parts Avoidance for Electrical, Electronic, and Electro-mechanical (EEE) Components

The spread of counterfeit electronic components continues to grow within the global supply chain and has penetrated various governmental agencies, including NASA and the US Department of Defense. The risk of counterfeit electronics being used in military equipment prompted an investigation by the Senate Armed Services Committee and aggressive legislation in the 2012 National Defense Authorization Act. NASA is responding to the issue through U.S. Congressional Act S.3729, authorizing NASA to plan, develop and implement a program to detect, track, catalog and reduce the number of counterfeit electronic parts in the NASA supply chain.

This is an introductory awareness class. Objectives include the following:

- Gain a basic understanding of the electronics parts counterfeit issue
- Gain basic knowledge of the supply chain environment for EEE parts
- Gain familiarity with some of the methods used in counterfeiting
- Examine risk mitigation steps
- Review verification and inspection processes for the detection of suspect parts
- Explore concepts regarding supply chain, risk mitigation, verification and inspection (concepts introduced in Part 1) in greater depth
- Examine the concept of parts obsolescence and its relation to counterfeit parts risk
- Overview of pertinent United States legislation relative to counterfeit parts
- Gain in-depth knowledge of inspection tools and equipment used for part authentication
- Gain hands-on experience inspecting actual electronic components

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The course uses IDEA-STD-1010-B, AS5553 Standard Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition, and NPD 8730.2 NASA Parts Policy and the JPL Counterfeit Electronic Parts Control Program, JPL Rules #78395 as references.

Focus: Procurement personnel, receipt inspectors, QA and QC personnel, procurement engineers, investigators

Cost: Free to government employees, fee for non-government

25.0 **NUCLEAR TRAINING INSTITUTE (NTI)**—NTI is a "for-profit" organization providing educational resources to the U.S. military and the Federal and commercial nuclear power industries. NTI instructors have extensive industry experience in the subject matter. The institute offers courses periodically at NTI's Norcross, GA, facility, but alternate arrangements also are an option.

Web site: <http://nucleartraininginstitute.com/>

Contact: Sean Ruth, Marketing and Sales Manager
Nuclear Training Institute
205 Scientific Drive
Norcross, GA 30092
Phone: 678-268-3364
Email: sean@nucleartraininginstitute.com

25.1 Nuclear Receipt Inspection

In addition to an introduction into counterfeit, fraudulent, and suspect item identification skills consistent with nuclear quality requirements in Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50, "Domestic Licensing of Production and Utilization Facilities," this 2-day class provides a basic understanding of receipt inspections activities such as: performing a visual examination of the material, accurately reading a Certified Material Test Report (CMTR), evaluating material inspection and test reports, evaluating hydrostatic test reports, and an overview of applicable codes and standards. An examination will be administered following the course to evaluate the participant's understanding of the subject matter. *Note: NTI may require that participants meet specific prerequisites to be eligible to receive certification. Contact NTI before registering.*

Focus: Procurement personnel, receipt inspectors, QA and QC personnel, procurement engineers, investigators

Cost: Fee

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- 26.0 **THE SMART GROUP**—Private representatives of "ChipCheck," a collaborative research project involving various partner organizations developing a shared Web site through which members can check incoming electronic components.

Web site: <http://www.chipcheck.eu/>

Contact: ChipCheck, Project Coordinator
TWI NDT Validation Centre (Wales)
ECM, Heol Cefn Gwrgan
Port Talbot, SA13 2EZ, UK
Phone: +44 (0) 1639 873100
1-877-606-7323 (SAE Customer Service)
Fax: +44 (0) 1639 864679
E-mail: ian.nicholson@twi.co.uk
<http://www.chipcheck.eu/contact/>

26.1 Introduction on Counterfeit Components and Inspection

Emphasis on nondestructive testing methods associated with automatically testing electronic components in their original packaging.

Focus: Procurement personnel, material analysts, receipt inspectors, QA and QC personnel, electronics engineers, procurement engineers, suppliers and vendors

Cost: Fee-free compact disc (CD) upon request

- 27.0 **SMT CORPORATION**—SMT Corp. is a distributor of authenticated brand-name electronic components and quality and authentication test services.

Web site: <http://www.smtcorp.com/>

Contact: Tom Sharpe, Vice President
SMT Corporation
14 High Bridge Rd.
Sandy Hook, CT 06482
Phone: 203-270-4705
E-mail: tsharpe@smtcorp.com

27.1 SMT Corporation—Counterfeit Electronics Awareness or Avoidance Training Sessions

Tom Sharpe is a subject-matter expert in the field of counterfeit electronic components and provides educational presentations to all user-sectors of the electronics industry. He provides CFSI awareness, detection, and prevention training to all levels of the supply chain and has presented at numerous conferences and technical symposiums.

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Focus: Senior management, materials managers, purchasing managers, procurement personnel, engineering personnel, receipt inspectors, QA and QC managers and inspectors, procurement engineers, craft and installers, investigators, vendor auditors and inspectors, suppliers and vendors, patent holders

Cost: Free within the continental United States

28.0 **SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) INTERNATIONAL**—A global industry association of more than 128,000 engineers and related technical experts in the aerospace, automotive, and commercial vehicle industries worldwide. SAE International's core competencies are life-long learning and voluntary consensus standards development.

Web site: <https://www.sae.org/learn/>

Contact: SAE Customer Service: 1-877-606-7323
(724-776-4970 outside the United States and Canada)
E-mail: CustomerService@sae.org

28.1 Introduction to AS5553 and Counterfeit Electronic Parts Avoidance

These seminars benefit a wide range of individuals and experience levels across the electronics industry and supply chain. Anyone who designs, specifies, buys, receives, assembles, and tests electronic hardware will benefit from this seminar. This includes electronic design engineers, parts engineers, quality assurance engineers, buyers, auditors, inspectors, assemblers, electronic test engineers, microelectronic nondestructive test engineers, destructive test analysts, and supplier managers. Additionally, this seminar will benefit individuals in various levels of management who influence electronic hardware.

Focus: Electronics engineers, procurement personnel, material analysts, receipt inspectors, QA and QC personnel, design engineers, procurement engineers, craft and installers, vendor auditors and inspectors, investigators, suppliers and vendors

Cost: Fee, with a discount for SAE members

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- 29.0 **THE SUPPLY CHAIN RISK MANAGEMENT CONSORTIUM**—The 22 companies forming the Supply Chain Risk Management Consortium collectively provide SCRM Supply Chain Risk Management (SCRM) education, identifies and assesses risks using Cloud-based risk appetite, risk maturity models and supply chain mapping solutions, mitigates risks leveraging best practices and manages risks through enterprise risk management (ERM) frameworks, governance, risk management, and compliance (GRC) organizational alignment, business continuity plans (BCP), scenario playbooks and risk response plans

Web site: <https://thescrmconsortium.com/>

LinkedIn: http://www.linkedin.com/groups?gid=4874779&trk=my_groups-b-grp-v

Contact: Gregory L. Schlegel CPIM, CSP, Jonah
973-615-2050 Mobile
Greg.Schlegel@shertrack.com
www.shertrack.com

- VP Business Development, SherTrack LLC, Predictive Analytic Solutions for Complex Supply Chains
- Executive in Residence, Supply Chain Research
- Lehigh University grs209@lehigh.edu
- Adjunct Professor, ERM, Enterprise Risk Management Villanova University, EMBA

- 29.1 **ONLINE Course:** ["Supply Chain Risk & Resilience Course"](#)

This course provides the knowledge and tools to guide you through understanding the choices available to your organization to manage supply chain risk and enhance the resiliency required for long term sustainability and profitability. Structured in three levels, Level 1 reviews Supply Chain Management fundamentals, industry trends, and the impact of uncertainty, complexity, and risk and the identification of supply chain risks. Levels 2 and 3, offer case studies that delve into the impact of risk on various aspects of your organization. Upon completion of the three levels, you will earn the Supply Chain Risk and Resiliency Certificate from Lehigh University.

Focus: Senior management, materials managers, purchasing managers, procurement personnel, engineering personnel, QA and QC managers and inspectors, procurement engineers, vendor auditors and inspectors, suppliers and vendors, patent holders

Cost: Fee based

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- 30.0 **THESEUS ACADEMY** – A Division of Theseus Professional Services, LLC a consulting and training company supporting the nuclear industry since 1999.

Website: <https://www.theseuspro.com/academy/>

Contact: Norman P. Moreau, PE, ASME Fellow
Chief Executive Officer
1829 Reisterstown Road, Suite 350
Baltimore, MD 21208
Phone: 410-857-0023
Cell: 410-596-2209
E-mail: nmoreau@theseuspro.com

30.1 Supply Chain Processes – Counterfeit Fraudulent Suspect Items Emphasis

The training will take the participant through the supply chain processes from senior management down to the installation of the components received from the vendor/supplier. The presentation will include PowerPoint covering the: impacts of counterfeiting across all supply chains both domestic and international; documented instances of discovered items (costs and risks), including the downstream impact to other customers; discussion of domestic and international regulatory requirements pertaining to supply chain; roles and responsibilities of each organization involved in the supply chain; examples of discovered items including fraudulent labels, discrepancies to look for. Also included will be consideration on what do you do with items discovered that meet the definition of fraudulent/counterfeit? What processes do you have in place to appropriately dispose of discovered CFSI? Contract language developed to hold supplier accountable to supply correct items as specified. The course will include a hands-on section with participants involved in reviewing and handling actual items discovered and presented. Materials presented may be good, defective, used and misrepresented as new, or any combination of good and bad mixed together.

Focus: All personnel involved in the supply chain including senior management, company attorneys, engineering (design down through procurement engineers), acquisition personnel (e.g., buyers, technical representatives, and procurement clerical preparing POs), Quality Assurance staff (e.g., auditors, quality assurance engineers, quality control inspectors).

Cost: Fee based

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30.2 Cyber Security in the Nuclear Industry

The course describes Cyber Security principles, and the application of Cyber Security for the nuclear industry. The course includes a roadmap to the applicable guidance for those designing and building software or buying software for nuclear applications. Cyber Security for procuring firmware-based digital devices as well as upgrading and maintaining existing firmware-based devices is discussed. Also included is guidance for procuring and evaluating digital devices that are replacing older, analog based electronic components for use in nuclear facilities. Beginning with the Cyber Security Rule at 10 CFR 73.54, the course introduces the learner to the documentation from EPRI, NRC, ASME, NIST and NEI. Use of the Cyber Security Domains (Asset Security, Communications and Network Security, Security Engineering, etc) in the context of the regulatory environment will be discussed. Topics covered include the Secure Development Environment, the Secure Operating Environment, Critical Digital Assets (CDA), and Secure Software/System Development Lifecycles. The course includes a discussion of ICS environments regarding industrial Cyber Security as well as more traditional IT based Cyber Security in IT environments. The course briefly introduces Cyber Security requirements for developing and using nuclear codes and software development methods.

Focus: I&C engineers, design engineers, software engineers, risk managers, QA specialists, V&V specialists, procurement engineers, technicians, vendor auditors, receipt inspectors, NSSS suppliers, and vendors who wish to sell into nuclear environments.

Cost: Fee based

- 31.0 **U.S. DEPARTMENT OF ENERGY (DOE), OFFICE OF HEALTH, SAFETY, AND SECURITY (HSS)**—Federal agency. The Office of Health, Safety, and Security was created to bring together the vital DOE corporate functions of health, safety, environment, and security under one office.

Web site: <https://ehss.energy.gov/SESA/Files/corporatesafety/sci/>

Contact: Duli Agarwal
U.S. DOE Office of Quality Assurance
Phone: 301-903-3919
E-mail: Duli.Agarwal@hq.doe.gov

31.1 Suspect/Counterfeit Items Awareness Instructor-Led Training

Note: Courses are currently offered only to government employees.

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Contact the National Training Center at:

<https://ntc.doe.gov/contact>

Focus: Management, procurement personnel, material analysts, receipt inspectors, QA and QC personnel, procurement engineers, investigators

Cost: Fee

31.2 Suspect/Counterfeit Items Awareness Training Manual

Focus: Procurement personnel, engineering personnel, auditors, vendor inspectors, receipt inspectors, QA and QC managers and inspectors, procurement engineers, investigators, suppliers and vendors

Cost: Free

32.0 **U.S. DEPARTMENT OF JUSTICE (DOJ), COMPUTER CRIME & INTELLECTUAL PROPERTY SECTION (CCIPS)**—Federal agency. The Computer Crime and Intellectual Property Section (CCIPS) carries out the department's national strategies in combating computer and intellectual property crimes worldwide. CCIPS prevents, investigates, and prosecutes computer crimes by working with other government agencies, the private sector, academic institutions, and foreign counterparts. Section attorneys work to improve the domestic and international infrastructure—legal, technological, and operational—to pursue network criminals most effectively. The section's enforcement responsibilities against intellectual property crimes are similarly multifaceted. Intellectual property (IP) has become one of the principal U.S. economic engines, and the Nation is a target of choice for thieves of material protected by copyright, trademark, or trade-secret designation. In pursuing all these goals, CCIPS attorneys regularly run complex investigations, resolve unique legal and investigative issues that emerging computer and telecommunications technologies raise; litigate cases; provide litigation support to other prosecutors; train Federal, State, and local law enforcement personnel; comment on and propose legislation; and initiate and participate in international efforts to combat computer and intellectual property crime.

Web site: <http://www.justice.gov/criminal/cybercrime/>

Contact: John Lynch, Chief
Computer Crime and Intellectual Property Section
Phone: 202-514-2000; 202-514-1026 (CCIPS)

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32.1 RT-220, DE-Introduction to Cyber Investigations (DE-ICI)

This course presents the processes, techniques, specialized documentation, legal guidelines, and requirements for conducting basic cyber-crime investigations through the use of lecture, practical exercises, scenarios, and case studies.

Focus: Defense criminal investigative organizations (DCIO), Federal and military investigators new to cybercrime, Federal and military computer forensic examiners, support personnel who directly support cyber investigations, patent holders

Cost: Fee

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Table 2. List of Acronyms

AAQ	Academy of Aerospace Quality
ABMA	American Bearing Manufacturers Association
ADAMS	Agencywide Documents Access and Management System
APICS	Association For Operations Management
CALCE	Center for Advanced Life Cycle Engineering
CALTECH	California Institute of Technology
CBP	U.S. Customs and Border Protection
CCIPS	Computer Crime & Intellectual Property Section
CD	compact disc
CEO	Chief Executive Officer
CFS	counterfeit, fraudulent, suspect
CFSI	counterfeit, fraudulent, suspect Item
CGI	commercial-grade item
CFR	<i>Code of Federal Regulations</i>
CMTR	Certified Material Test Report
CVCR	Center For Value Chain Research
DAU	Defense Acquisition University
DCITA	Defense Cyber Investigations Training Academy
DCIO	defense criminal investigative organizations
DE	distance (remote) education
DHS	U.S. Department of Homeland Security
DKSP	Diminishing Manufacturing Sources and Material Shortages Knowledge Sharing Portal
DMSMS	diminishing manufacturing sources and material shortages
DOC	U.S. Department of Commerce
DOD	U.S. Department of Defense
DOE	U.S. Department of Energy
DOJ	U.S. Department of Justice
EEE	electrical, electronic, and electromechanical
EPRI	Electric Power Research Institute
FLTEC	Federal Law Enforcement Training Center
GIPA	Global Intellectual Property Academy
GQA	global quality assurance
HSS	Office of Health, Safety, and Security
IACC	International AntiCounterfeiting Coalition
IAEA	International Atomic Energy Agency
ICE	Inspector Certification Exam
ICE	U.S. Immigration and Customs Enforcement
ICI	International Copyright Institute
IDEA	Independent Distributors of Electronics Association
IP	Intellectual property
IPR	intellectual property rights
JPL	Jet Propulsion Lab
LLC	limited liability corporation
MC ²	Maryland Cybersecurity Center
NASA	National Aeronautics and Space Administration

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NRC	U.S. Nuclear Regulatory Commission
NQA-1	American Society of Mechanical Engineers (ASME) Nuclear Quality Assurance Program
NTI	Nuclear Training Institute
NUPIC	Nuclear Procurement Issues Committee
QA	quality assurance
QC	quality control
SAE	Society of Automotive Engineers
TAG	technical advisory group
UMD	University of Maryland
USPTO	U.S. Patent and Trademark Office
WBA	World Bearing Association