

## IT Risk Specialist Courses

**Recommended Audience:** The following two courses are recommended for IT risk specialist examiners of all experience levels who are looking to deepen their technical knowledge or be updated on the latest issues.

### Network Security 28 Credit Hours

After reviewing attack vectors and network diagrams, this class provides a further look at network protocols and the OSI Reference Model. Building on this knowledge, topics such as firewalls, intrusion detection, and security event monitoring are covered to relate and emphasize the necessity for proper device management.

**July 30-August 3, 2012**

### Operating Systems 28 Credit Hours

This course focuses on the security capabilities and limitations of network and computer operating systems (OS). Systems reviewed include virtualization VMware, the Microsoft OS family (including Windows 2003, 2008 and Windows 7), the UNIX/Linux operating system family and IBM's OS/400. Hands-on exercises use virtualized or native environments, and activities include the review of security parameters and permissions on all platforms.

**September 10-14, 2012**

IT Topics	e-Banking	IS VM	Net Sec	OS	Sup Themes & Eng Topics
Mobile Banking Technologies	✓				
e-Banking Technologies	✓				
Common Threats and Vulnerabilities	✓				
Strong Authentication	✓				
Managing e-Banking Risks	✓				
Vendor Management	✓				
Microsoft Security Tools		✓			
Intrusion Monitoring		✓			
Penetration Testing		✓			
Patch Management		✓			
Incident Response		✓			
TCP/IP Protocol			✓		
Network Diagramming			✓		
Intrusion Detection/Prevention			✓		
Firewall Architecture			✓		
Microsoft OSes				✓	
Active Directory				✓	
Unix/Linux OS				✓	
IBM OS/400				✓	
Virtualization	✓		✓	✓	
VOIP				✓	
Wireless		✓		✓	
Cloud Computing				✓	
Encryption				✓	
Data Leak Prevention				✓	
IT Governance				✓	
Remote Deposit Capture				✓	
Social Media and Risks				✓	



Last updated: 06/27/11

## How to Register

### Federal Reserve and State Examiners

Contact your Reserve Bank training coordinator

### U.S. Federal Regulators

Contact: **Gail Bellamy**  
Federal Reserve of Chicago  
(312) 322-6412  
Gail.Bellamy@chi.frb.org

### Non-U.S. Regulators

Contact: **Maribeth Seraj**  
International Training and Assistance  
Federal Reserve Board of Governors  
(202) 736-5557  
BSRInternationalTraining@frb.gov

### Registration Questions?

For any other Registration Questions  
Contact: **Gail Bellamy**  
(312) 322-6412  
Gail.Bellamy@chi.frb.org

## STREAM

### SUPERVISION TECHNOLOGY RISKS

EDUCATE, ANALYZE AND MANAGE

STREAM is focused on supporting the 3Rs of Risk Identification, Analysis and Resolution by providing educational and analytical products and services. Key activities of the team include educating examiners, peers and stakeholders on existing and emerging technologies, analyzing technologies and data from a practical and strategic perspective, and managing those risks.

### Federal Reserve Bank of Chicago

230 South LaSalle Street  
Chicago, IL 60604

Onsite Contact: **Steven Langford**  
(312) 322-5768  
Steven.Langford@chi.frb.org

Technology Lab

2012  
Course  
Schedule



## Course Offerings

*The Technology Lab's underlying premise is that the rapidly increasing complexity of information technology and the increasingly important contribution of IT to operations risk creates material knowledge gaps between examiners and industry IT practitioners. The intention is to have a combination of classroom lecture and technical lab "hands-on" exercises. All classes are week-long unless otherwise noted. Through your participation in these classes, we hope to narrow that gap and ensure the stability, integrity and efficiency of the nation's monetary, financial and payment systems.*

## What's New for 2012

- A Visitors Resource Facility, located near the classroom, is available with wireless internet access, telephones, desks and a meeting table to accommodate your business needs.
- As in 2011, a non-refundable registration fee of \$550.00 will apply to all non-Federal Reserve System State and Agency participants.

## Banking Applications Classes

### ALM Model Lab 28 Credit Hours

In addition to asset-liability management theory this course offers hands-on ALM model training to commissioned examiners responsible for ALM model reviews at community, regional and large banking organizations. Topics include stochastic simulation and valuation techniques, rate term structure modeling, multi-factor prepayment models, derivative and hedge modeling per FAS133, and dynamic liquidity modeling. Note: Class registration is limited and completion of prerequisites may apply. Contact Emily Greenwald at

312-322-5377 or Art Porton at 312-322-6814 directly for registration information and availability on this class.

**Recommended Audience:** Course material is advanced; registrants are expected to have a solid understanding of financial concepts and have exam responsibilities for reviewing ALM models.

**April 30-May 4, 2012**  
**September 17-21, 2012**

### BSA/AML Hands-On Lab 28 Credit Hours

This course is designed to walk examiners through core principles and procedures of the FFIEC BSA Anti-Money Laundering Examination Manual. Topics include: Examination Scoping and Planning; Risk Assessments; Customer Identification Program/ Customer Due Diligence; Currency Transaction Reports, Office of Foreign Asset Control; Information Sharing; Suspicious Activity Monitoring & Reporting; and, Developing conclusions and finalizing the examination.

**Recommended Audience:** Safety & Soundness examiners (pre- and post-commissioned) who are expected to perform BSA exams. Registrants should have participated on at least one BSA exam.

**May 14-18, 2012**  
**October 15-19, 2012**

### Bank Operations Simulation 32 Credit Hours

This course provides participants with a simulated bank operations experience. Utilizing an industry-standard general ledger system and related applications, participants receive hands-on training on fundamental banking operations, including cash, teller and check operations, back office operations, investment and loan operations and electronic payments systems (ACH, Wire Transfer, and more.). Participants experience the bank management perspective to manage bank operations, detect misappropriations, and work to mitigate control weaknesses. The participants also improve their understanding of

examiner responsibilities by identifying issues and root causes that contribute to control weaknesses.

**Recommended Audience:** Safety & Soundness examiners (especially pre-commissioned) who are looking for bank operations training. Federal Reserve registrants should have passed Level 1 of the Examiner Commissioning Program curriculum and participated on at least one review of community bank operations. The class is also open to Reserve Bank personnel in other departments who are looking for greater understanding of bank general ledger accounting and operations.

**July 16-20, 2012**  
**November 5-9, 2012**

### Remote Deposit Capture Clinic 11 Credit Hours

This course is designed to enable examiners to define key terms and acronyms related to Remote Deposit Capture ("RDC"); describe, at a high level, the technologies that enable RDC; describe the risks and associated controls that relate to RDC; identify key principles from the FFIEC guidance; and, complete the FFIEC's RDC work program for a moderately-complex financial institution.

**Recommended Audience:** IT Examiners of all experience Levels and Safety & Soundness examiners cross-trained to conduct IT exams.

**October 22-24, 2012**

## Information Technology Classes

### IT Generalist Courses

**Recommended Audience:** The following two courses are recommended for newer IT examiners and for Safety & Soundness examiners who are being cross-trained to do IT exams.

### e-Banking/Mobile Banking 28 Credit Hours

This course provides an overview of the technologies and risks fundamental to electronic and mobile banking. Topics include technology overview, common security threats and vulnerabilities, fraud risks, and vendor management sound practices. Hands-on exercises include vulnerability testing, SQL injection compromise, account takeover fraud, and vendor due diligence. Mitigating controls such as web application testing and the FFIEC's strong authentication guidance are also covered.

**June 4-8, 2012**

### IS Vulnerability Management 28 Credit Hours

This course focuses on the operational aspects of IT vulnerability management. Topics include network and system monitoring, risk assessment and mitigation, patch management, and incident response. Hands-on exercises with penetration testing, vulnerability scanning and patch management tools reinforce the necessity for bank IT managers to have an accurate asset inventory and risk assessment.

**June 18-22, 2012**

### IT Supervisory Themes and Emerging Topics 28 Credit Hours

This course is designed to highlight emerging topics in supervision of information technology in a condensed and discussion-oriented format. Topics include Virtualization, Cloud Computing, Cloud Computing Vendor Management, Data Leak Prevention, Wireless 802.1n, VOIP, IT Governance, Remote Deposit Capture, ITIL/Capacity Management and BCP/ Pandemic Preparedness.

**Recommended Audience:** This class is suited for both newer IT examiners looking for some introduction to these topics and experienced examiners who have encountered these issues and could benefit from further collaboration with other examiners.

**October 1-5, 2012**