

NSA & CNSS Certified

IT Security Training

for IT and IA Professionals, and System End-Users

A cost-effective, interactive, web-based learning solution ...



IT Security - State of the Industry

Evolving Threat and What's at Risk

- Vulnerabilities and incidents are rising exponentially
- Dramatic increases in computer interconnectivity
- Information Privacy / Confidentiality
- Provision of Services / Availability
- Critical Roles and Missions
- National Infrastructure
- Data Manipulation / Integrity



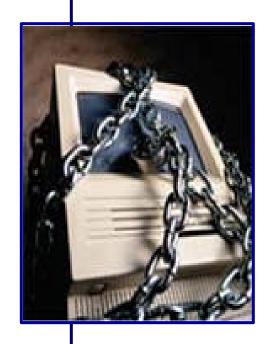


IT Security - State of the Industry

Alarming Statistics

- In the past 5 years, intrusions have risen 50%
- 85% of reported virus attacks resulting in significant financial loss
- 74% cited the Internet as a frequent point of attack
- 33% cited internal systems
- 38% have suffered unauthorized access and/ or misuse of their websites
- 70% of those attacked were vandalized.

Source: CIO Information Week, May 1, 2002





IT Security - State of the Industry

Security Training in Federal Mandates

Computer Security Act of 1987

✓ Requires training for management and use of Federal computer systems

Office of Management and Budget Cir A-130, App III

✓ Ensure all individuals are appropriately trained in how to fulfill their security responsibilities

Government Information Security Reform Act (GISRA)

✓ Include in Agency performance plan a description Agencywide security program, and budget, staffing, and training resources which are necessary to implement this security program

Federal Information Security Management Act of 2002 (Title III of E-Gov) (FISMA)

✓ OMB oversight of Agency IT security practices and Agency accountability





IT Security - Training

Available Training Venues

Instructor-Led Training (ILT)

- √ Hi-quality, interactive experience
- ✓ Costly, therefore limited for agency-wide training

Computer-Based CD-ROM Training

- ✓ Lower cost
- ✓ Instructor interaction non-existent
- ✓ Static training

Web-Based Training

- √ Can be anywhere, anytime, any place
- ✓ Dynamic interactive training is possible
- ✓ On-line support may be available
- ✓ Cost effective





IT Security - Training Drivers

What Federal Agencies Are "Saying"

"Consistent with NIST SP 800-16"

"Aligned with federal mandates!"

"Learn anytime, anywhere (24/7)!"

"Easy to administer agency-wide"

"Training specific to individual roles and responsibilities"



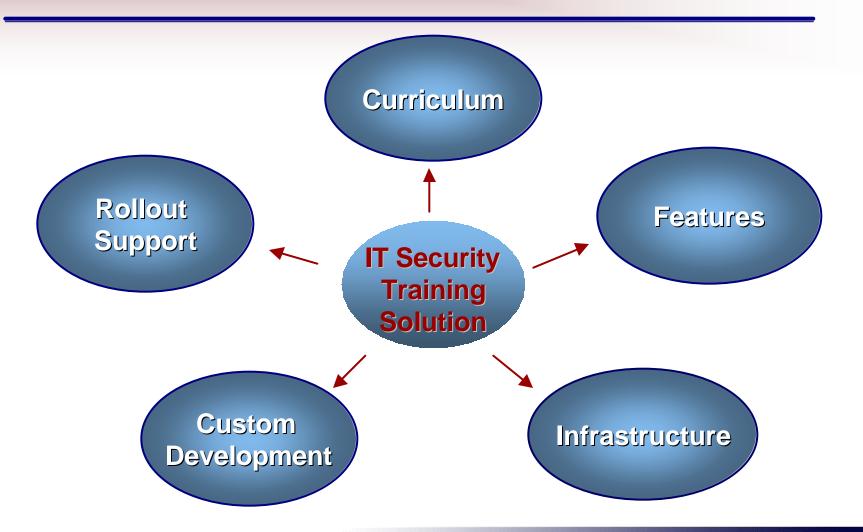
"To measure and report on progress"

"Need for a impact solution!"

"Cost effective training solution"

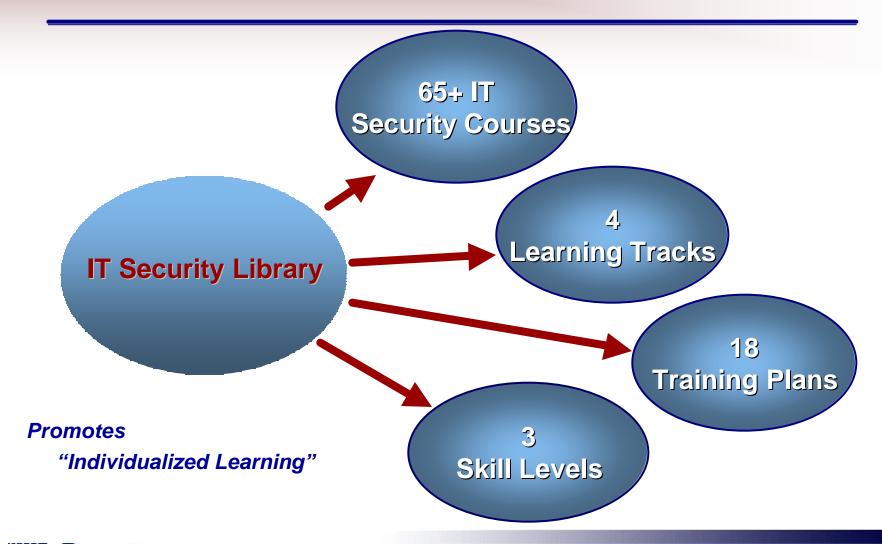


The IT Security Training Solution





The IT Security Training Solution





IT Security Training Solution - Curriculum

Based on NIST Special Publication 800-16

NIST SP 800-16 IT Security Training Matrix

Table 1. NIST SP 800-16 IT Security Training Matrix

			FUNCTIO	NAL SPEC	IALTIES		
	Α	В	С	D	E	F	G
Training Areas	Manage	Acquire		Implement & Operate			Other
1 Laws & Regulations	1A	18	10	1D	1E	1F	
2 Security Program							
2.1 Planning	2.1A	2.1B	2.10	2.1D	2.1E		
2.2 Management	2.2A	2.2B	2.20	2.2D	2.2E		
3 System Life Cycle:	Security						
3.1 Initiation	3.1A	3.1B	3.10		3.1E	3.1F	
3.2 Development	3.2A	3.2B	3.20	3.2D	3.2E	3.2F	
3.3 Test & Evaluation			3.30	3.3D	3.3E	3.3F	
3.4 Implementation	3.4A	3.4B	3.40	3.4D	3.4E	3.5F	
3.5 Operations	3.5A	3.5B	3.50	3.5D	3.5E	3.5F	
3.6 Termination	3.6A			3.6D	3.6E		
4 Other							

These areas of the matrix are available for future modifications

... as seen in the ITSL Course Catalog

Job Function – Training Cross References

	rity Officer/	
All œll:	s in the matr	ixapply
Datab	ase Admini:	strator
	3.2D	
	3.3D	
	3.4C	
	3.4D	
	3.5D	
	3.8A	
	3.6D	
	mer/Systen	n Analyst
1C	3.2C	
1D	3.3C	
	3.3D	
	3.4C	
	3.5C	
	3.8D	
	•	
	: Designer/D	
1C	3.1A	3.4C
	3.18	3.5C
	3.1C	
	3.2A	
	3.2C	
	3.3D	



IT Security Training Solution - Curriculum

Based on NIST Special Publication 800-16

Course to NIST SP-800-16 Cross Reference

					NIST Special Publication 800-16 Matrix*															.,											
Course No.	Course Title	Level	CHIZIN	CHILID	Cell 2 IIC	C-4123D	Celtain	Cell 2.2A	CHILDRE	Cell 2.2D	C#122E	Call 3.5A	Callain	Catan	Call 3.19	Celibaa	Cell 3.2D	Cell 3.2C	Cell 3.3D	Cedazz	Cellan	C+12.3D	Cell 3.3E	Call 3.1F	CHI 2.4A	Cell 3.4B	Cell 2.4C	Cell 3.4D	Call 2.46	Celtar	Cell 3.50
99061	Advanced Local Network Security	Adv	Ï	Γ	*	*	*			*		Ï	Ī					*	*	*	I	*	*					*	*		
99017	Analyzing Network Security Plans	Int.	٠		*	٠	*	٠		*		*	Ī										*	100	*						П
99004	Authentication and Authorization in E-commerce	Int			*		Î	T	T			Ĭ	Ī	ı	ľ						I	*						3,1			
99019	Certification Authority	Int		П											ı	Г			*	•		*					٦	٠			
99013	CGI and Encryption	Int		Г			H	1				ı			1	Г	П		*		ı	*					7				
99051	Designing and Configuring Firewalls	Int	15 15	Ī	*	*				*	0	10 00	Ī	*				*				ĺ		100				*	0		
99060	Designing Local Network Security	Adv	*		*	*	*	*	,	* *	*	*		*				*			I							80			
99058	Designing Remote Security Solutions	Int			*	•			,	*				*				*		I								30			
99059	Designing WAN Security	Int		Г	*	*		T	Т	*		*		*		Г			T	T	I				Г		٦		П		
99052	Detecting Hackers	Int	*		*	*		T	,	* *		*		*	1	*		*	T	T	I	I	Г		Г		7		П		
99025	Distributed Security Planning	Int	*	П	*	×	81	*	\top	Т	П	*		÷	П	г		*	T	\top	т	П	П	П	Г	П	╛		П		

... as seen in the ITSL Course Catalog

Sample Training Plans

Information Resources Manager

Course				Durano
Number	Course	Level	TRACK	(HRB)
99067	TT Security Awareness (Beginning)	В	Al	.5
99050	Firewall Fundamentals	В	Network Security	1
99056	Securing Internet Access with Firewalls	В	Security Policy/Guidelines	1
99024	Mrus Protection and Recovery	В	Security Policy/Guidelines	1
99038	Fundamentals of Internet Security	T .	All	3
99032	IT Security Awareness (Intermediate)	T	Al	1
99059	Designing WAN Security	T	Network Security	2
99031	Implementing Network Security	T	Network Security	2
99018	Securing Local Area Networks	T	Network Security	2
99049	Securing Network Resources	T	Network Security	2
99010	Troubleshooting Local Area Networks	T	Network Security	2
99017	Analyzing Network Security Plans	T	Security Planning	3
99058	Designing Remote Security Solutions	T	Security Planning	2
99052	Detecting Hackers	T	Security Planning	1
99025	Distributed Security Planning	T	Security Planning	2
99016	Securing an Automated Information System	T	Security Planning	2
99060	Designing Local Network Security	T	Security Policy/Guidelines	4
99034	Managing User Security for Windows NT	T	Security Policy/Guidelines	2
99009	Network Security Policy	T	Security Policy/Guidelines	1
99044	Principles of Operating Systems Security	T	Security Policy/Guidelines	1
99047	Risk Management	T	Security Policy/Guidelines	2
99046	Risks Assessment	T	Security Policy/Guidelines	1
99057	Securing Communication Channels	T	Security Policy/Guidelines	2
99015	Security Over Internet Protocol (IPSec)	T	Security Policy/Guidelines	2
99028	Security Strategies: Internal	T	Security Policy/Guidelines	1
99045	User Account and File System Security	T	Security Policy/Guidelines	2
99053	Windows 2000 Security Management	T	Security Policy/Guidelines	1
99008	Understanding Kerberos	T	Security Policy/Guidelines	2
99061	Advanced Local Network Security	A	Network Security	3
99042	Log Analysis	A	Network Security	1
99041	Intrusion Detection	A	Security Policy/Guidelines	3
99043	Security Auditing	A	Security Policy/Guidelines	1
99002	Security Firewalls for E-Commerce	80	Network Security	2
99055	Overview of E-Commerce Security	80	Security Policy/Guidelines	1
99051	Designing and Configuring Firewalls	10	Network Security	1
99036	Integrating Windows NT and Novell NetWare	10	Network Security	1
99037	License and Security for Novell NetWare 5	10	Network Security	2
99011	Securing Remote Connectivity	10	Network Security	3
99004	Authentication and Authorization in E-Commerce	10	Security Policy/Guidelines	1
99026	Security Strategies: External	10	Security Policy/Guidelines	2
99062	Transaction Management	10	Security Policy/Guidelines	2
99063	Java Beans Security	A0	Data Security	3
99064	Securing Cisco Routers	A0	Network Security	3
99054	Securing Access to Partners	A0	Network Security	3
99035	Windows NT Networking (Multiple Domains)	A0	Network Security	2

*Note: The shaded areas of the chart differentiate course levels (e.g., beginning, intermediate, and advanced).

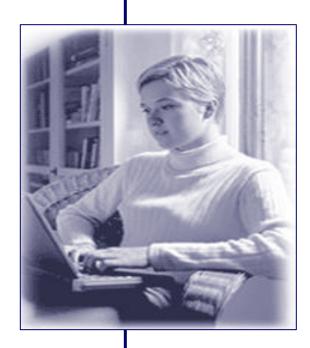


IT Security Training Solution - Curriculum

Predetermined Integrated Training Plans

Examples of some of the Training Plans are:

- Information Security Officer
- IT Program Manager
- Network and System Administrators
- Database Administrator
- Program and Systems Analysts
- System Owner
- System Design Developer
- Information Resource Manager
- End Users
- Designated Approving Authority





IT Security Training Solution – Certifications

CNSS & NSA Certification

The Karta IT Security Training curriculum received NSA and CNSS Certification by meeting national standards for NSTISSI No. 4013 through 2006!



IT Security Training Solution – Certifications

Continuing Professional Education Credits (CPE)

Individuals holding Certified Information Systems Security Professional (CISSP) or System Security Certified Practitioner (SSCP) can earn CPE credit for each hour of education accomplished in Karta's IT Security Library from (ISC)²





IT Security Training Solution

Features / Infrastructure

Browser Playable; No Plug-ins;
Minimal Bandwidth Requirements = User friendly; technical challenge avoidance

Electronic Registration and = Simplified accessibility and tracking

Pre and Post Assessments = Individualized learning

Embedded Questions and = Reinforced learning Exercises

Courseware Mentoring – Online = Interactive support SME 24/7 (Optional)

Help Desk = User Acceptance

Hosting = Accessibility

"A Turn Kev Solution"



IT Security Training Solution

Custom Development and Rollout Support

- Custom courses can increase the utilization of the entire IT Security Library
- = "User Buy-in"
- Custom courses satisfy the need to train on agencyspecific security policies and procedures
- Customer Ownership

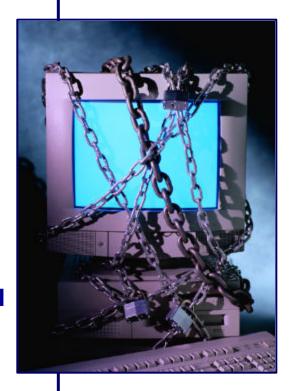
 Marketing Support and Program Development

Outreach and Communications



IT Security Training Solution – Benefits Summary

- Based on federal guidelines and mapped to NIST SP 800-16 in order to create integrated training plans
- Meet requirements set forth by the Federal mandates – use solution as part of your FISMA response
- Curriculum is recognized by professional security groups such as: NSA/CNSS and (ISC)²
- Comprehensive program with rollout support and custom course development services available to ensure the greatest ROI
- Based on the needs heard from the Government Security Professionals
- Cost effective and standardized





IT Security Training Solution – Current Customers

Federal Agency Customers

- ⇒ Department of Education
- ⇒ Department of Labor (OSHA)
- **⇒** FDIC
- **⇒ FAA**
- ⇒ NASA
- ⇒ Veterans Affairs
- **⇒** Executive Office of the President (EOP)
- **⇒** USAID
- **⇒ NIST**
- **⇒ EPA**
- ⇒ Department of Interior
- **⇒** USDA
- **⇒** Florida State
- ⇒ US Secret Service





Karta Contact

Sonny Kakar
VP, Capitol Area Operations
Karta Technologies, Inc.
703.469.2282
202.549.8184 (cell)
skakar@karta.com

George Soltys

Manager, IT Security Training

Karta Technologies, Inc.

703.469.2080

703.309.3038 (cell)

gsoltys@karta.com



