IA-00084

DOD INFOSEC Education, Training, Awareness & Products (ETA&P)

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April 1998

Form SF298 Citation Data

Report Date *("DD MON YYYY")* 00041998	**Report Type** N/A	**Dates Covered (from... to)** *("DD MON YYYY")*

Title and Subtitle DOD INFOSEC Education, Training, Awareness & Products (ETA&P)	**Contract or Grant Number**
	Program Element Number
Authors	**Project Number**
	Task Number
	Work Unit Number
Performing Organization Name(s) and Address(es) DISA	**Performing Organization Number(s)**
Sponsoring/Monitoring Agency Name(s) and Address(es)	**Monitoring Agency Acronym**
	Monitoring Agency Report Number(s)
Distribution/Availability Statement Approved for public release, distribution unlimited	
Supplementary Notes	
Abstract	
Subject Terms	
Document Classification unclassified	**Classification of SF298** unclassified
Classification of Abstract unclassified	**Limitation of Abstract** unlimited
Number of Pages 56	

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 074-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503

1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	4/21/98	Briefing

4. TITLE AND SUBTITLE
DoD INFOSEC Education, Training, Awareness & Products (ETA&P)

5. FUNDING NUMBERS

6. AUTHOR(S)
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9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)

Defense Technical Information Center
DTIC-IA
8725 John J. Kingman Rd, Suite 944
Ft. Belvoir, VA 22060

10. SPONSORING / MONITORING AGENCY REPORT NUMBER

11. SUPPLEMENTARY NOTES

12a. DISTRIBUTION / AVAILABILITY STATEMENT

12b. DISTRIBUTION CODE
A

13. ABSTRACT ***(Maximum 200 Words)***

This DISA briefing outlines the full set of DoD INFOSEC education, training, awareness and products available to the field. It documents DISA location in the information infrastructure, the DoD missions and functions, the customers, approach, and key working groups and forums. It also identifies the training facility, and the course that are offered by area and by job function. It also describes the current training products and other educational opportunities and schools.

14. SUBJECT TERMS
INFOSEC training

15. NUMBER OF PAGES

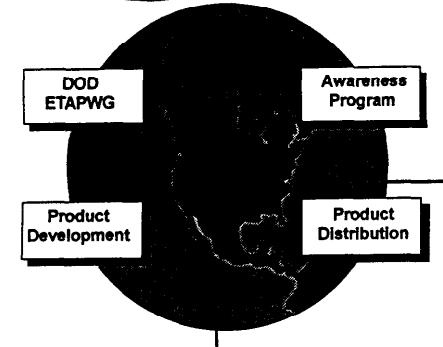
16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
Unclassified	UNCLASSIFIED	UNCLASSIFIED	None

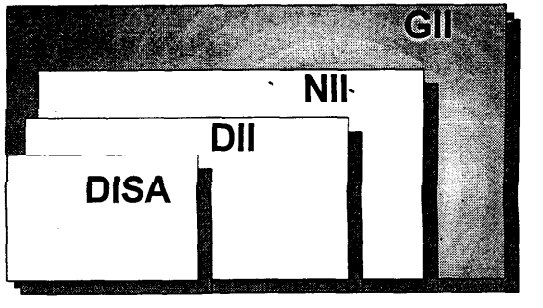
Operations

Training & Awareness Mission

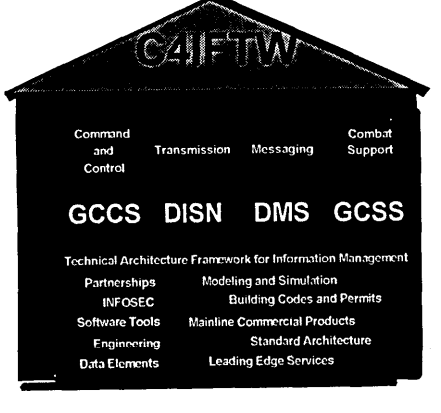
DOD Mission & Functions



Vital link in securing the information infrastructure



- ***Support ASD/C3I***
- ***Facilitate development of standardized DOD-wide INFOSEC training***
- ***Develop products for use in a comprehensive DOD INFOSEC awareness program***
- ***Promote training & awareness products for use DOD-wide***
- ***Promote development of curriculum to support an INFOSEC career field/professional program***
- ***Influence national-level INFOSEC education, training and awareness***



Customers

Who they are

Approach

- Champion products
  - Resource
  - Promote
  - Produce
- Leverage INFOSEC ETAP forums
  - DOD (DII)
  - Federal/National (NII)
  - International (GII)
- Rely on existing ETAP infrastructure
  - CINCs
  - Services
  - Agencies

Key Working Groups & Forums

Classified Community

- **Security Policy Forum**
  - **Training and Professional Development Committee (TPDC)**
  - **INFOSEC Working Group (ISSWG)** (IPMO chairs)
- **NSTISSC**
  - **INFOSEC Education, Training and Awareness Issue Group**
- **MISSI Life Cycle Logistics Working Group**

Unclassified Community

- **NIST Computer Security Program Managers Forum**
  - **Federal Information Systems Security Educators Association (FISSEA)**
- **Association of Computing Machinery (ACM)(via** NPS)
- **National Colloquium for INFOSEC Education**
- **Army C2 Protect Training Working Group**

DOD IA ETAPWG: Overview

Education, Training, Awareness and Professionalization Working Group

- ETAPWG Charter under ASD/C3I Information Assurance Group (IAG)
- Address IA/INFOSEC ETA issues on behalf of ASD/C3I
- CINC, Service and Agency membership
  - ETA providers
  - ETA program managers
- Purpose is to:
  - Identify gaps in instruction
  - Recommend/develop solutions
  - Determine champions for initiatives
  - Eliminate duplication of effort
  - Standardize what is being taught

CINCs/JS	*Services*	*Agencies*
USACOM	USA	DeCA
PACOM	DISC4	DFAS
DISA PAC	TRADOC	DISA
CENTCOM	USN	DIA
EUCOM	CNO/N6	DSS
SOUTHCOM	CNET	DLA
SOCOM	USAF	NDU
SPACECOM	AFCA	NRO
STRATCOM	AETC	NSA
TRANSCOM	AIA	NCS
Joint Staff	AU/Cadre	ISSO
J6	USMC	
J7	C4I	

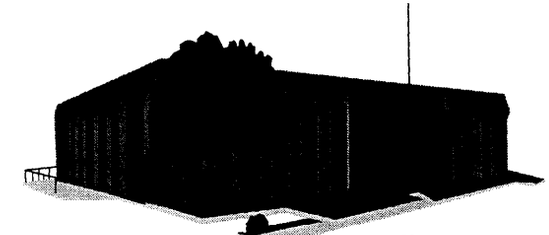
INFOSEC Training Facility (ITF)

DODIAETA@ncr.disa.mil

- **Provides capability for delivering INFOSEC courseware in NCR**
  - **2 computer classrooms (1 PC; 1PC & UNIX)**

- **Validate content and pilot/evaluate courseware**

- **Supports non-IPMO developed courses**
  - **Operational Computer Security (ND225)(NSA)**
  - **INFOSEC Basics (ISSB)(formerly DODSI)**
  - **DII COE (DISA)**
  - **ARMS (DISA)**



Skyline (Sky 4)
Falls Church VA

- **Available to DOD and others**
  - **User provides instructor; ITF provides support @ no cost**
  - **Army requesting use as 2nd site for System Admin training**
  - **Navy using for training in NCR**

- **INFOSEC training to DISA/GOSC reservists on weekends**

ETA Products:
Current
and
On the Horizon

INFOSEC Post Graduate Education

- Joint IPMO/Navy/Navy Postgraduate School (NPS) initiative
- Goal: Infuse INFOSEC into appropriate curriculums at DOD degree granting institution
- NPS is joint institution: CINCs, Services, Agencies
- NPS lead development w/IPMO
  - Introduction to Computer Security (completed)
  - Management of Security in Information Systems (current)
  - Secure Systems (planned)
  - Network Security (planned)
- NPS taking lead to transfer course materials to DOD and private sector academic institutions
  - ACM (Association for Computing Machinery)
  - Other academic forums

INFOSEC Courseware

IPMO sponsored: no cost/low cost

Computer Based Training (Unclassified, DOS based 286)

- **DOD CS 100: Introduction to Computer Systems Security**
  - Targets unclassified environment (DOD version of NSA IN-170)
  - 8 hours

Platform Instruction (ITF or MTT)

- **INFOSEC 101: INFOSEC for End Users** (1 day)
- **INFOSEC 300: INFOSEC for ISSMs & ISSOs (5** days)
- **INFOSEC 315: DITSCAP (2** days)
- **INFOSEC 310 Windows NT Security for SAs (5** days)

Training Materials (PowerPoint)

- **INFOSEC 201: INFOSEC for Managers** (web only)
- **INFOSEC 205: Malicious Logic** (web only)

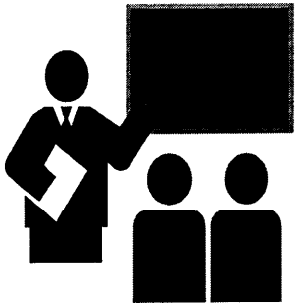
Available at no cost via WWW or from DISA/IPMO upon request

DOD Information Technology Security Certification & Accreditation Process

DITSCAP

- **IPMO role**
  - **Develop DOD level modules; validate DOD-wide**
  - **Front end for Service/Agency detailed training**
- **Awareness/literacy level**
  - **Overview of DITSCAP (.25 day)**
    - **initial Effort Required**
    - **Long Term Benefits**
  - **DITSCAP Task & Step Review (1.75 day)**
    - **Review DITSCAP process by phase**
    - **DITSCAP templates & "boilerplate"**
    - **Identify places to go for additional assistance**
- **Audience**
  - **Primary : ISSO, Mid-Management**
  - **Secondary:**
    - **Sr Management**

    @Personnel w/ C&A as part of their job
- **Delivery**
  - **Platform (available @ ITF)**
  - **Train-the-Trainer (w/Services/agencies)**
  - **Convert to interactive multimedia CBT (3 QTR FY98)**



INFOSEC Courseware

On the Horizon

- **IPMO: Designated Approving Authority (DAA)**
  - Based on GSA and DODSI materials
  - Updating course; adding practical exercise
  - Prepare classroom course (3rd QTR FY98)
  - Convert to CBT (4th QTR FY98)
- **IPMO: Information Assurance for Auditors and Evaluators (w/ DODIG)**
  - DODIG lead for military IGs
  - DODIG leading coordination to transition to Federal-wide IG audience
  - Pilot held 3-4 March 98 @ ITF
  - .ConverttoCBT(3rdQTRFY98)
- **Defense Acquisition University (DAU):Information Resource Management (IRM) 101**
  - INFOSEC inputs provided to DAU for web based course
  - POC: Norline Depeiza (depeizn@acq.osd.mil)
  - Web site: http://192.239.92.37/IRM101_project_web/welcome.html

Public Key Infrastructure

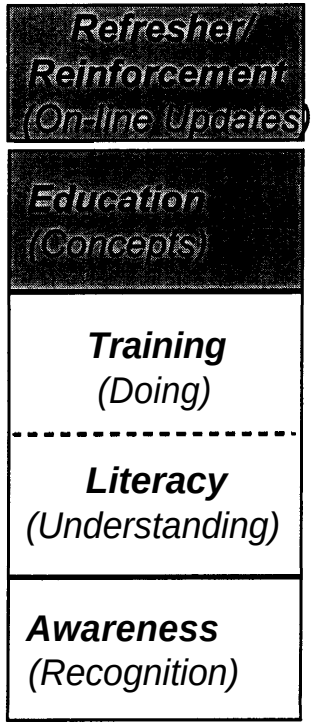
PKI

- **IPMO role**
  - **Develop DOD level modules; validate DOD-wide**
  - **Front end for Service/Agency detailed training**

- **Audience**
  - **Users**
  - **Local Registration Authorities (LRAs)**
  - **Registration Authorities**

- **Initially in conjunction with Defense Travel Service (DTS)**
  - **Piggy-back on DTS training strategy**

- **Delivery medium**
  - **Awareness Video: June 98**
  - **Platform course: July 98 (pilot)**
  - **Train the trainer program**
  - **Convert to interactive multimedia CBT (4 QTR FY98)**



Windows NT Security for System Administrators (INFOSEC 310)

- Drawn from Army and Navy Systems Administrator courses
  - Army, 5th SIG CMD: 5 days
  - Navy, CNET, Corry Station: 8 weeks (Multi-platform)

- DISA/IPMO course: Windows NT, 5 days
  - Roles & responsibilities, policies & procedures (.5 days)
  - Operating system security overview (4.5 days)
    - Threats and vulnerabilities
    - Countermeasures
    - Tools/firewall lab planned for future (FY99)

- Schedule: l-2 classes/month for remainder of FY98

Current INFOSEC Courses

Function / Courses	Sys Admin	Network Security	ISSO ISSM	TASO	IRM	End User	Mid-Mgr	Sr Mgr	Certifier
Operational Computer Security (ND225)(NSA)	X	X	X	X	X		X		X
INFOSEC Basics* (ISSB)(DODSI)(IPMO)	X	X	X	X	X	X	X		X
INFOSEC for ISSOs & ISSMs (IPMO)*	X	X	X						X
INFOSEC for ISSOs (Army)	X	X	X						X
Fortezza Installer (Army)	X	X (Installer)							
INFOSEC Mgmt (AMC 305)(Army)	X	X	X				X		X
ISA (CNET)**	X	X							
NS&VT (CNET)**	X	X							
DITSCAP (DISA)	X	X	X				X	X	X
INFOSEC for End Users (IPMO)*						X	X		

* For ITF courses, go to : http://www.disa.mil/ciss/cissitf

** For info on source ratings & prerequisites go to: http:/www.cnet.navy.mil/netpdtc/cantrac/cantrac.htm

INFOSEC Courses on the Horizon

Function / Courses	Sys Admin	Network Security	ISSO ISSM	TASO	IRM	End User	Mid-Mgr	Sr Mgr	Certifier
Sys Admin & Network Security (Army)(2QTR FY98)	X	X	X						
DAA (GSA/DODSI) (Navy)(IPMO)(4 QTR FY98)			X		X		X		X
Windows NT Security for Sys Admin (INFOSEC 310) (IPMO) (2 QTR FY98)	X	X	X						
Advanced Network Analyst (CNET) (4thQtr FY98)		X	X						
ISSM (CNET) (Pilot, 2 QTR FY98)	X	X							
DITSCAP (DOD) (IPMO)(2 QTR FY98)	X	X	X				x	x	X

INFOSEC CBTs & Videos

IPMO championed/community validated

- ***Computer Based Training*** *(Unclassified; DOS-based 286)*
  - **ND-170: Introduction to Computer System Security** (NSA)
    - Targets Classified environment (basis for DOD CS-100)
  - **ND-150: Introduction to Information Systems Security** (NSA)
  - **OP-301: OPSEC Fundamentals for Managers and Supervisors** (NSA)

- ***Videos*** *(VHS, Unclassified)*
  - **Networks at Risk** (NCS) (10 min)
  - **Protect Your AIS** (USGov) (6 vignettes)
  - **The Information Front Line** (IC) (10 min)
  - **Bringing Down the House** (IC) (11 min)
  - **Exploring MISSI** (IPMO w/NSA)(10 min)
  - **Computer Security 101** (DOJ) (~10 min)
  - **Computer Security: The Executive Role** (DOJ)(~10 min)
  - **Protect Your AIS** (FAA Version)(48 min)

INFOSEC Multimedia Products

CD-ROM Format

Current

- **INFOSEC Awareness** (Unclassified, Windows, 486)
  - **DISA specific/DOD useable**
  - **Fulfills Public Law 100-235 requirements**
- **IW Basics**
- **DOD INFOSEC Awareness**

On the Horizon

- **Federal INFOSEC Awareness (w/TPDC, NSTISSC ETA Issue Group)**
- **Operational Information Systems Security (OISS)(2 vol)**(WC)

*WC - web connected

INFOSEC CBTs & Videos

Current

Functions / CBTs & Videos	Sys Admin	Network Security	ISSO ISSM	CERT	TASO	IRM	End User	Mid Mgmt	Sr Mgmt
ND-150 Intro to Info Sys Security (NSA)	X	X	X	X	X	X	X	X	
ND-170 Intro to Comp. Sys Security (Classified Environment)(NSA)	X	X	X	X	X	X	X		
CS-100 Intro to Comp. Sys Security (Unclassified Environment) (IPMO)	X	X	X	X	X	X	X		
OP-301 OPSEC Fundamentals for Mgrs & Supervisors (NSA)	X	X	X						
INFOSEC Awareness CD-ROM (IPMO)					X	X	X	X	X
IW Basics (IPMO)	X	X	X		X	X	X	X	X
Networks at Risk (NCS)(10 min)	X	X	X	X	X	X	X	X	X
Protect Your AIS (IC)(6 vignettes)(10min)	X	X	X	X	X	X	X	X	
The Information Front Line (IW)(IC)(10min)	X	X	X	X	X	X	X	X	X
Bringing Down the House (IW)(NSA)(11 min)	X	X	X	X	X	X	X	X	X
Exploring MISSI (w/NSA)	X	X	X		X	X	X	X	

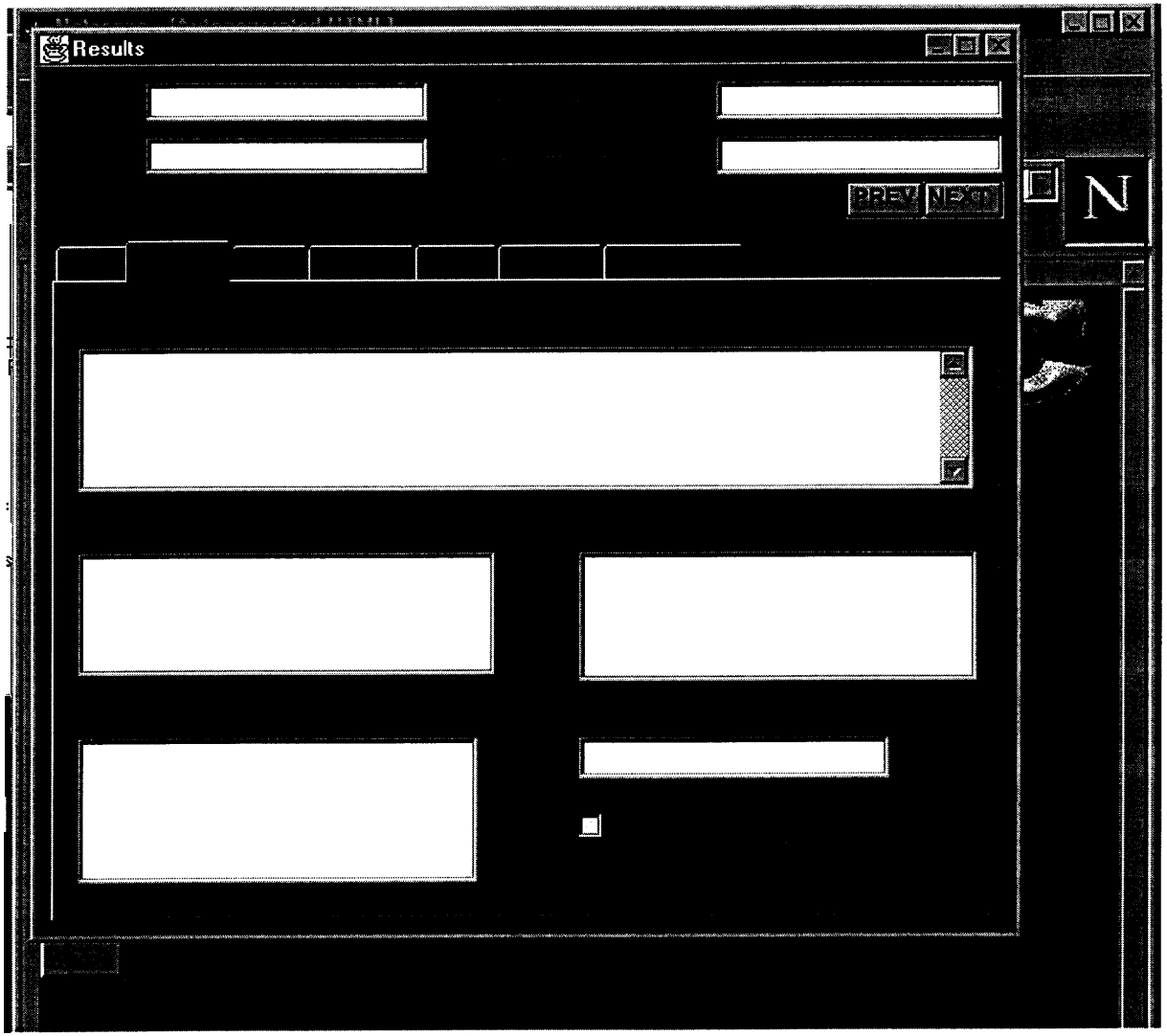
INFOSEC Awareness Products

Training Resources Electronic Catalog (TREC)

- **Multi-disciplinary: INFOSEC & related disciplines**
  - IW
  - C2W
  - EW
  - PSYSOPS
  - Physical Security
  - Info Assurance
  - Info Protect
  - Info Operations
  - OPSEC
  - COMSEC
  - COMPUSEC
  - TEMPEST
- **Centralized source of security ETA "products"**
  - Government owned/sponsored
  - Courses, CBTs, Training aids, Posters
- **Shared responsibility:**
  - IPMO manages configuration/dissemination
  - Providers/developers "own" their data; provide updates
- **Cooperative effort w/CINCs/Services/Agencies & Federal Depts & Agencies**
  - Promoted at national level as Federal solution
  - Interim version (Access) available via DISA v web site
- **Transitioning to Web based product (2nd QTR FY98)**
  - Search and sort capabilities using browser
  - Hot links to provider web sites for registration
  - Provider update on web

TREC Homepage

TREC Detail



INFOSEC Awareness Products

DISSPatch

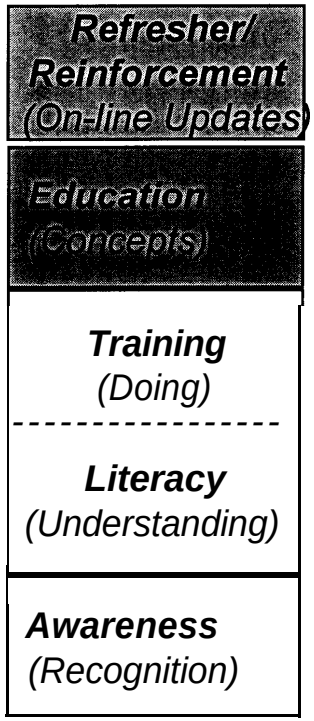
- DOD's INFOSEC newsletter
- Unclassified
- Availability
  - ASSIST BBS
  - Web sites (DISA, NSA/SIPRNET)
  - Paper copies (8000+ issues distributed)
- DOD & Federal wide
- Content
  - Focus article
  - Resources (products & courses)
  - Events (conferences/symposia)
  - Where to get more information
  - Service /Product POCs

Training Delivery to the Desktop

Developing Interactive Multimedia Training & Awareness Products

Systematic approach to efficiently provide high quality ETA products at reasonable cost

- **Apply National Institute for Standards and Technology (NIST) ETA levels**
- **Map course content; identify applicability to each level**
- **Build modular; -- "plug & play"**
- **Focus on delivery to the desktop**
  - **Computer-based training (CBT)**
  - **Network-based, Web-updateable (Connected CD-ROM)**
- **Integrate CBT with classroom instruction; payoff in**
  - **Reduced time in class, or**
  - **Additional topics covered/hands on provided, and**
  - **Post - refresher/reinforcement**
- **Ensure all courseware is**
  - **Free of copyright restriction**
  - **Government owned**
  - **Available at no cost to DOD**



Training Delivery to the Desktop

"Connected" CD-ROM

- **Full interactive, multimedia functionality on CD-ROM**
- **Run on network (intranet) or individual workstations w/CD-ROM readers**
- **Linked to web site for updates to training content (text files)**
- **Numerous features:**
  - **Metrics collection**
  - **Testing**
  - **Book marking**
  - **"Closed caption"**

Training Delivery to the Desktop

Advantages/Disadvantages

Advantages

- Standard course content and delivery
- Reduce time in classroom OR Reallocate time in classroom to
  - Add new topics
  - Increase hands on portion
- Use web-site to provide updates to training content
- Reduce need to conduct refresher training in classroom setting
- Lower cost

Disadvantages

- No direct, immediate interaction with instructor....but can
  - Reduce need by using prerequisites to bring students to desired level
  - Web based "Ask the Professor"
- Identity of student taking the course...
  - No different than correspondence course
  - Use existing infrastructure

Developing Interactive Multimedia Training & Awareness Products

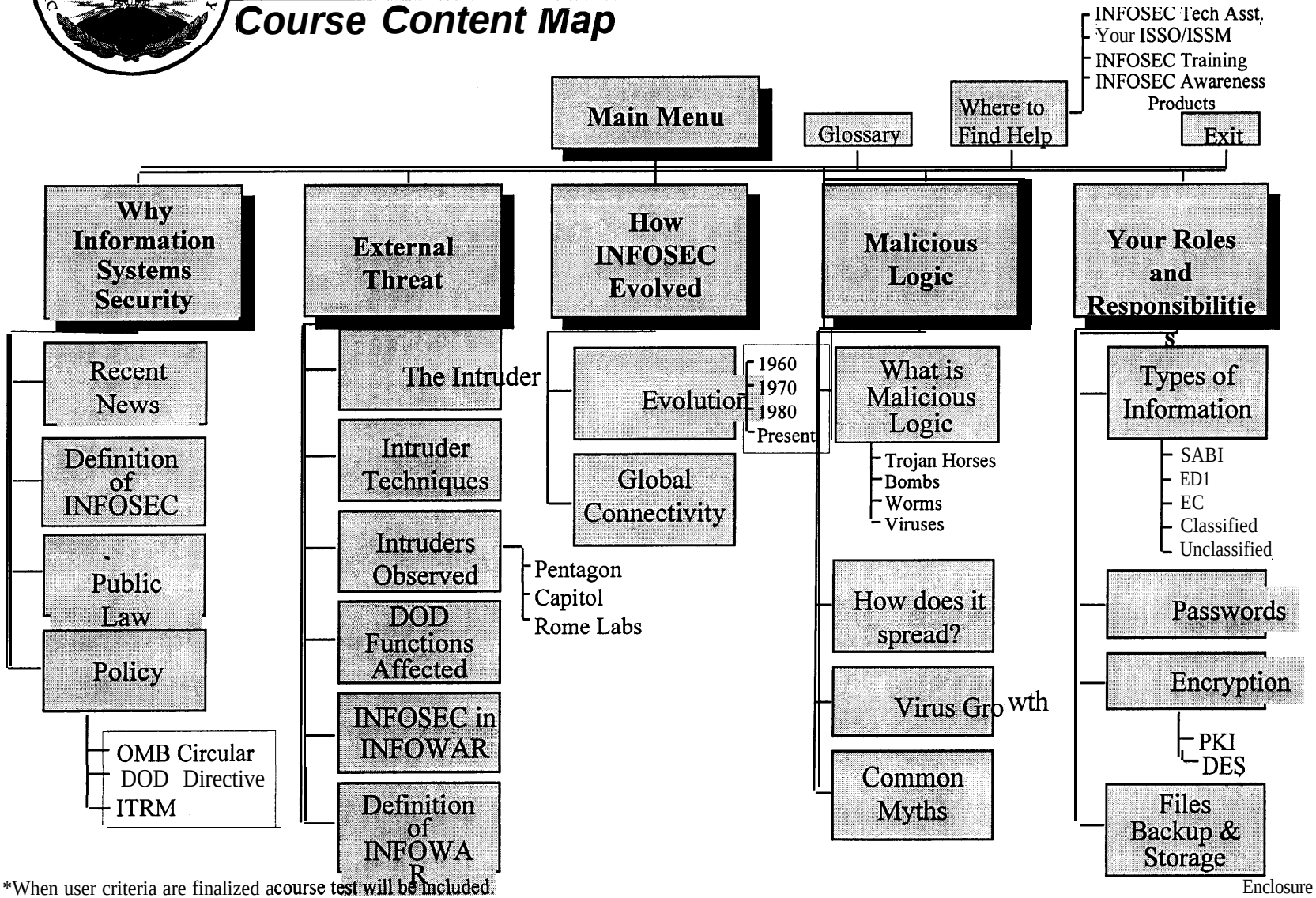
Deliverable to the desktop--
via CD-ROM reader or network... & web updateable

Example: INFOSEC Awareness CD-ROM

Cost	CD-ROM	Notes
Cost to develop CD-ROM master	$35,000.00	
Number disseminated	8647	Number does not include DISA personnel who have accessed the presentation via the DISANET
Cost to produce 8647 CD-ROMs @ $1.85 each	$16,000.00	Actual cost after the first 3500 is $1.58 each
Total cost to develop & produce	$51,000.00	
Cost per student	$5.90	

DOD INFOSEC Awareness

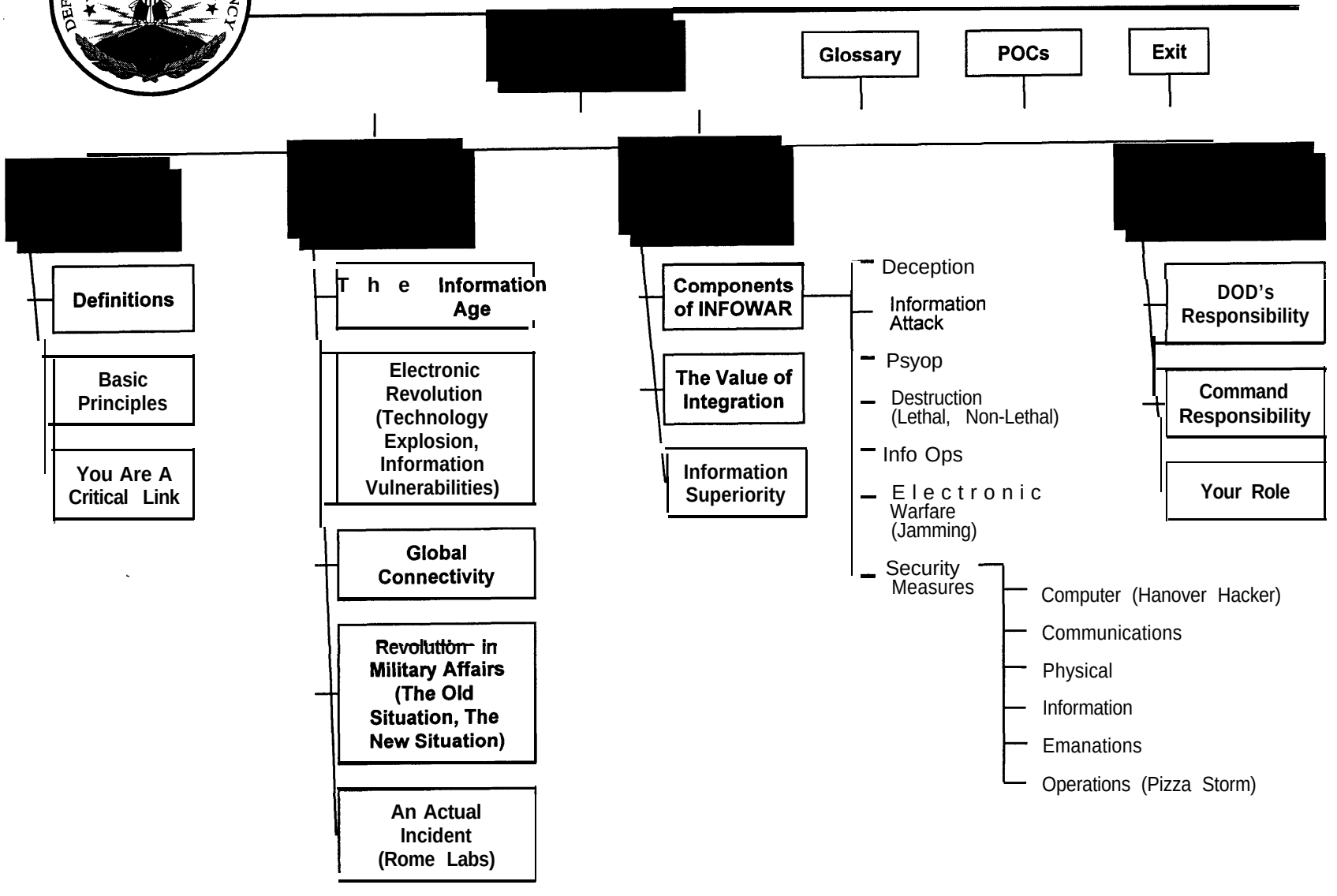
Course Content Map



*When user criteria are finalized a course test will be included.

INFOWAR Basics

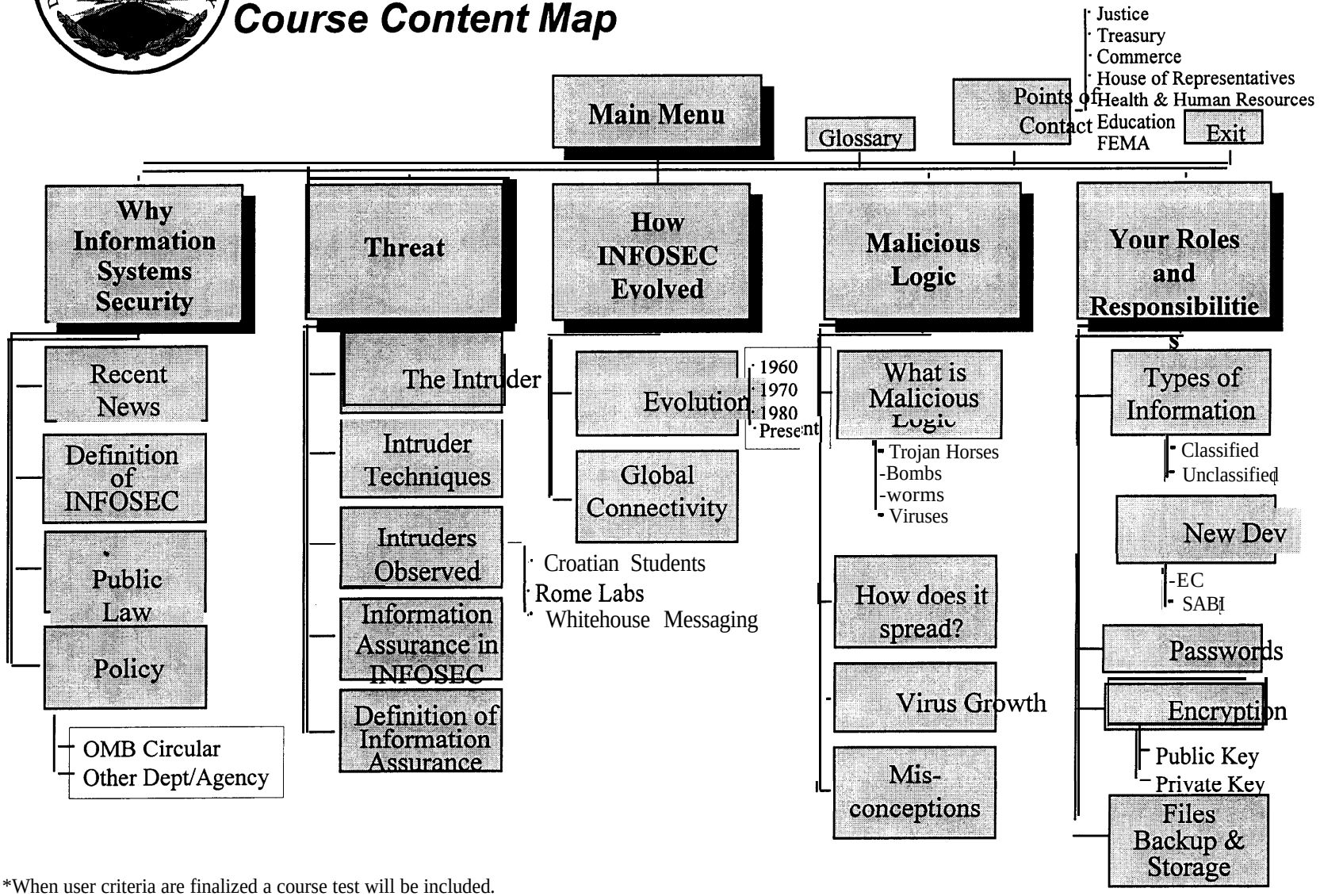
Course Content Map



27 March 1998

Federal INFOSEC Awareness

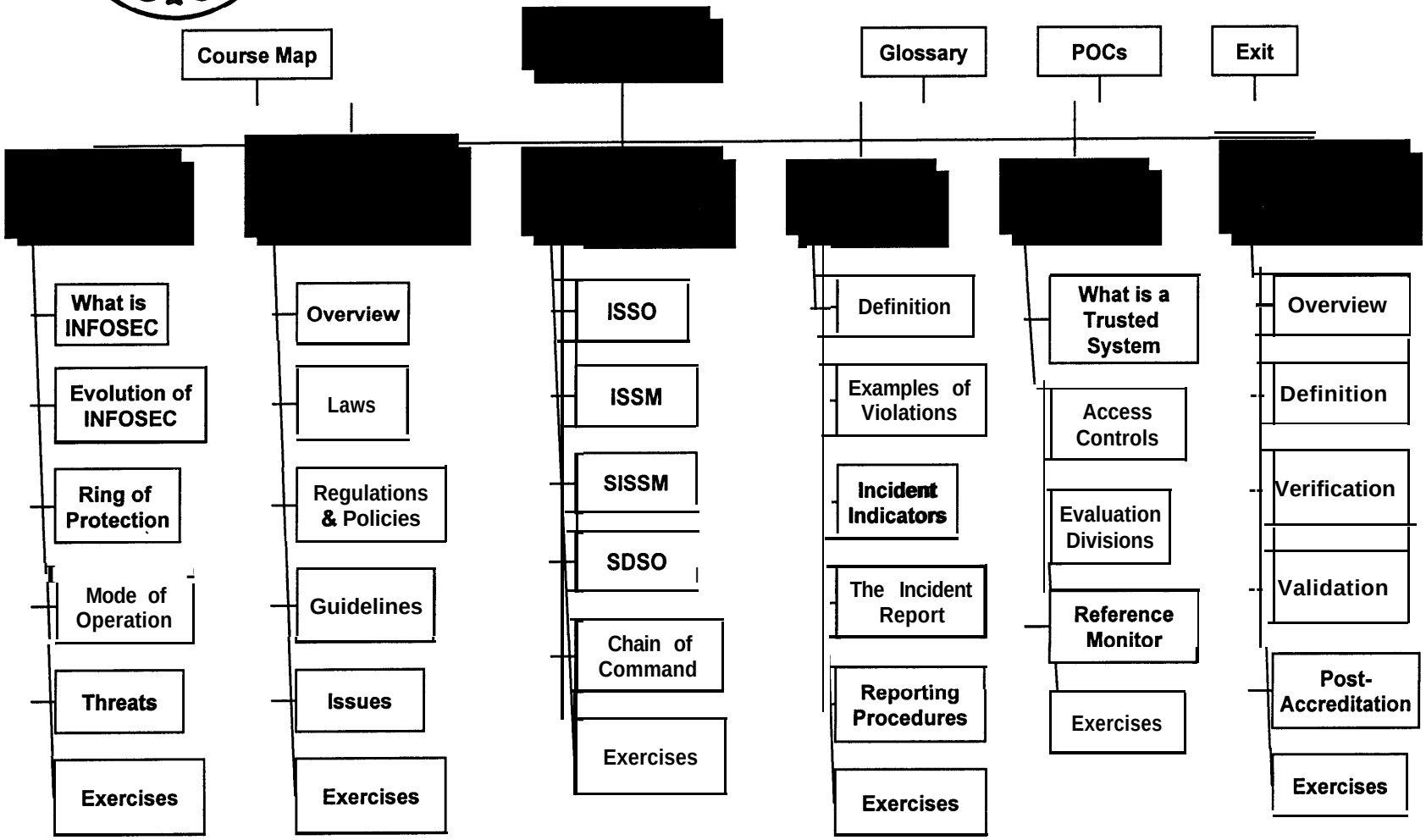
Course Content Map



*When user criteria are finalized a course test will be included.

Operational Information Systems Security (OISS), Vol.1

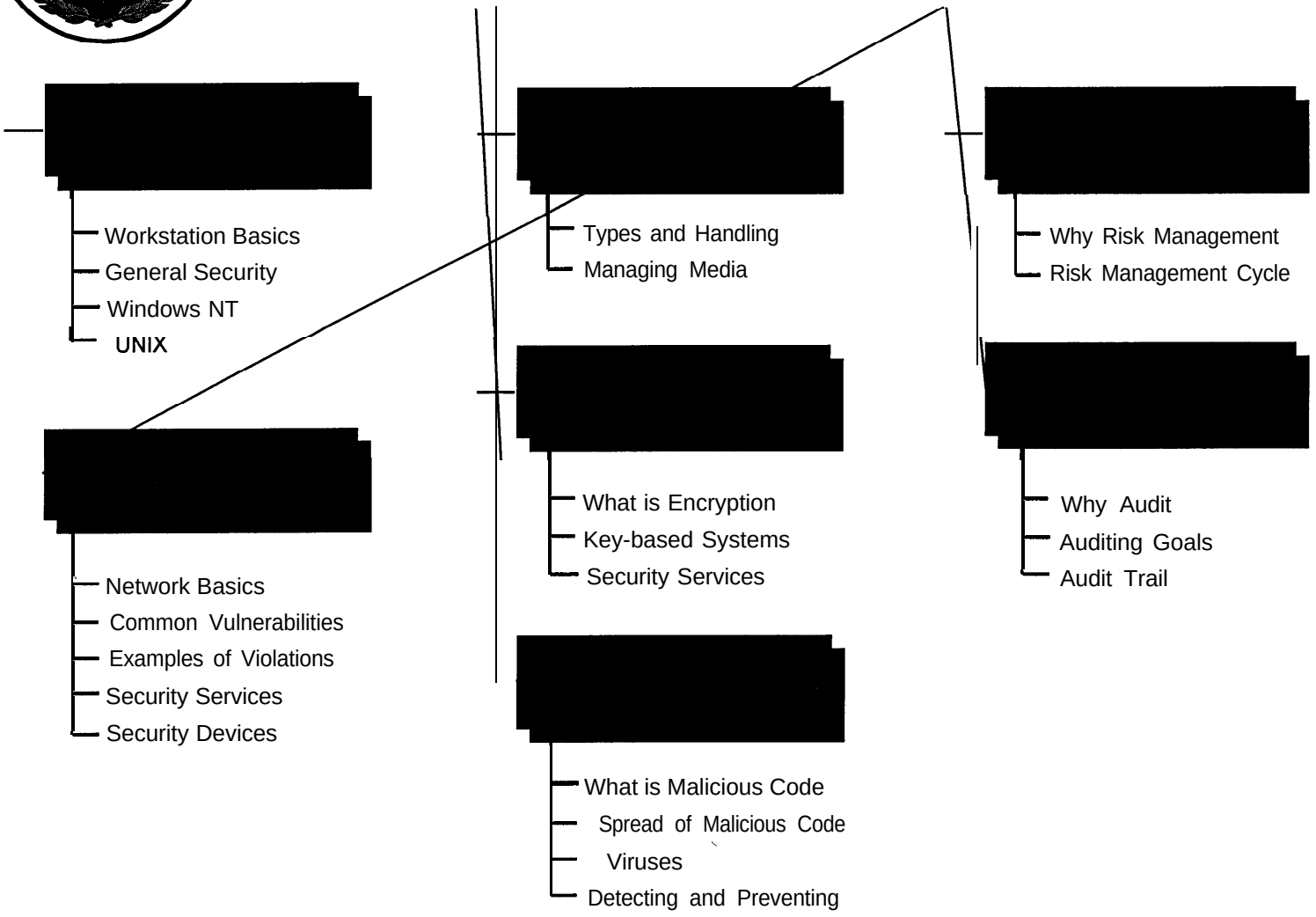
Course Content Map



27 March 1998

Operational Information Systems Security (OISS), Vol.2

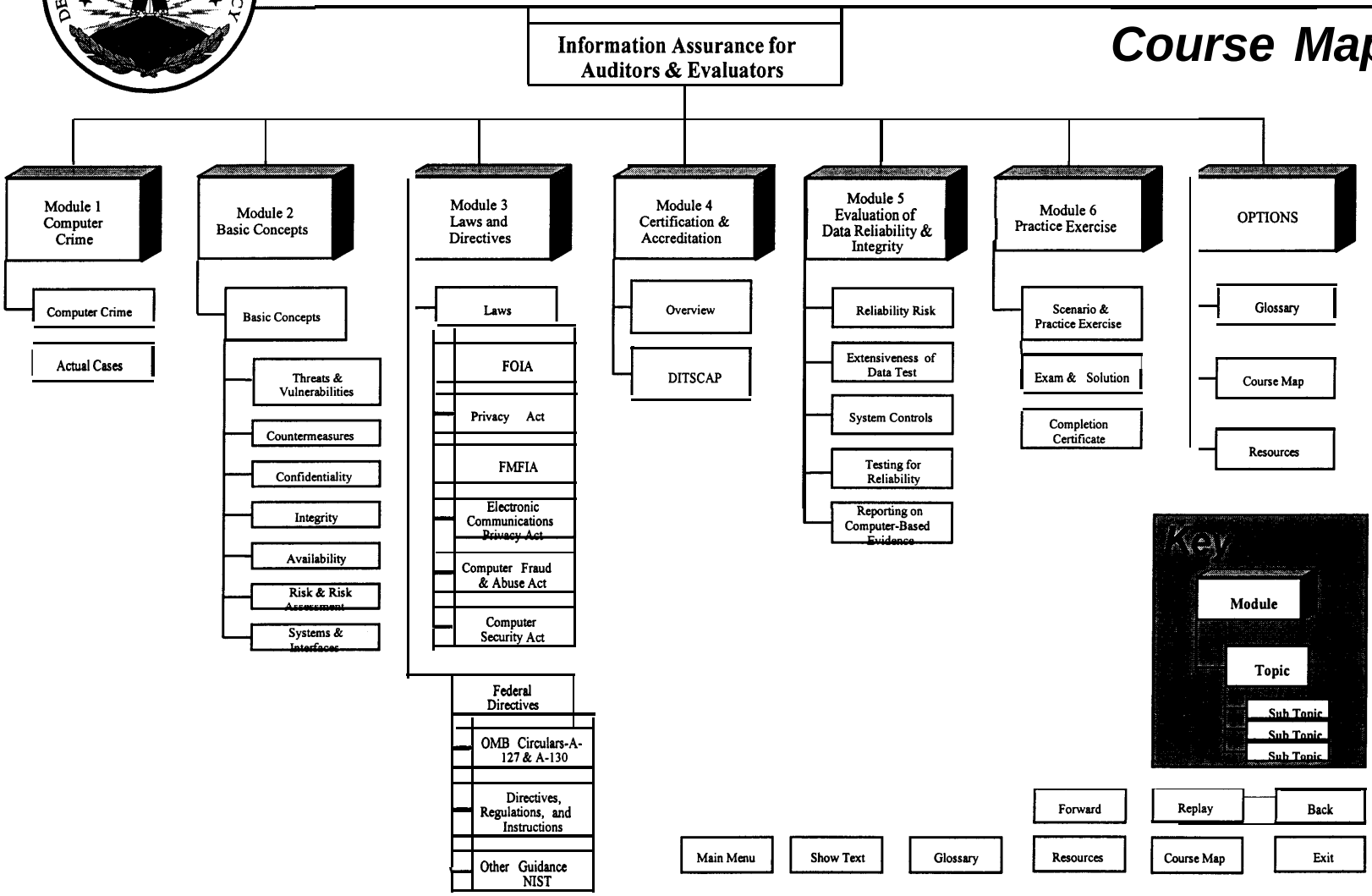
Course Content Map



27 March 1998

IA for Auditors and Evaluators

Course Map

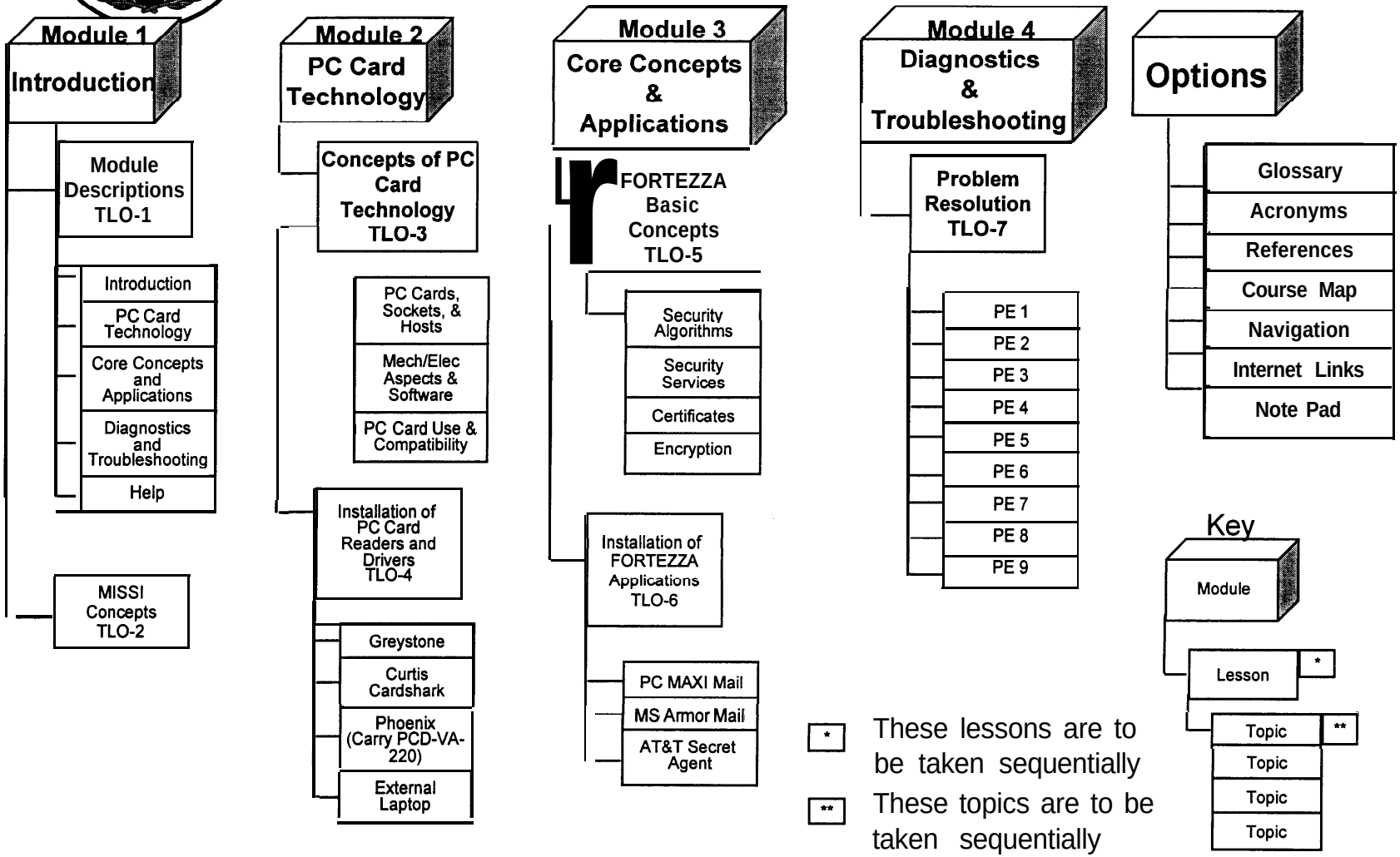


The first time through Module 5, the Topics are run in sequence as shown. Upon completion, the user may access the topics in any order.

Windows 3. 1 version

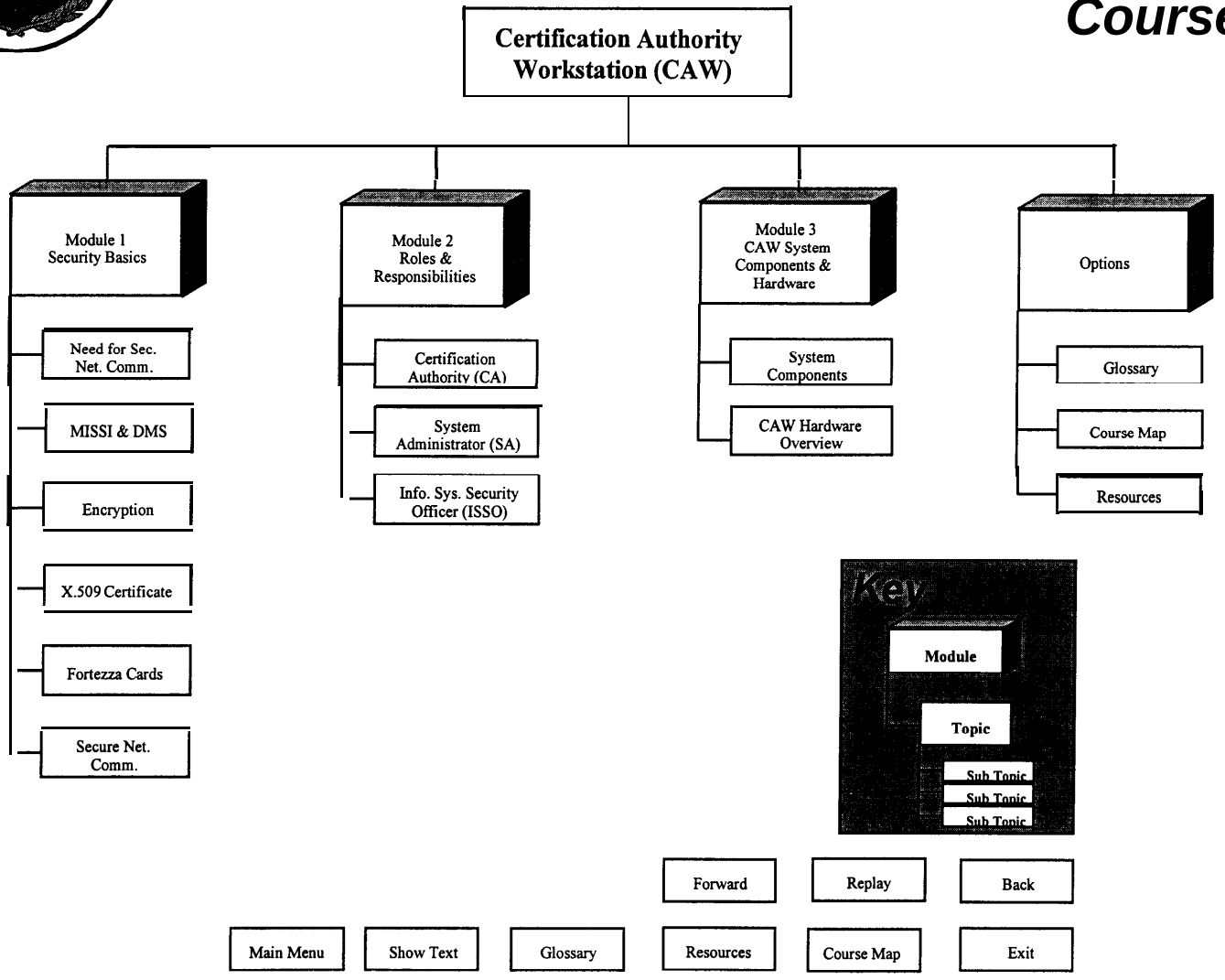
FORTEZZA Installers Course

Course Content Map



Certificate Authority Workstation (CAW)

Course Map



Information Assurance Support Environment (IASE)

Information Assurance Support Environment (IASE)

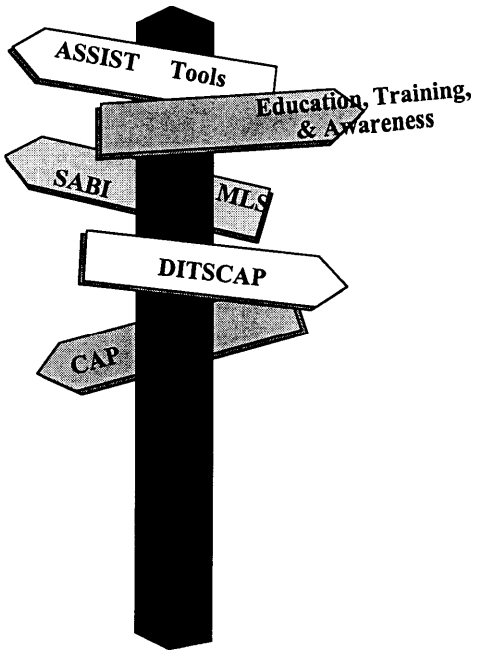
ASD/C3I directed; for use DOD-wide

- **Web-based DOD Help Environment for INFOSEC/ Information Assurance professionals**

- **Functional Areas**
  - **ETA**
  - **SABI/MLS**
  - **DITSCAP**
  - **Policy**
  - **C&A/ST&E**
  - **ITSC Contract**
  - **Tools**

IASE Features

- Person to receive request/provide information requested
- Request for Information Ticket System
- Frequently Asked Questions (FAQ)
- Solutions Database
- Chat/Discussion Rooms
- Whiteboard
- Mail List
  - Subscriptions
  - By Topic
- Bulletin Board System
- "Search our Site"



How to Access the IASE

- Unclassified Site:
  - NIPRNet: .mil and .gov accounts required
  - URL: *http://mattche.iiie.disa.mil/*
  - Information Desk Unclassified E-Mail: *IASE@ncr.disa.mil*
  - IP Address: *199.208.247.11*
- Classified Site:
  - SIPRNet accounts required
  - U RL: *http://cassie.iiie.disa.smil.mil*
  - Information Desk Classified (SIPRNet) E-Mail: *iase@iiie.disa.smil.mil*
- Hours of Operation:
  - Information Desk: M-F, 8-5
  - IASE Web Site: 24 x 7
- Telephone: 703-681-IASE

SA & User Licensing

Background

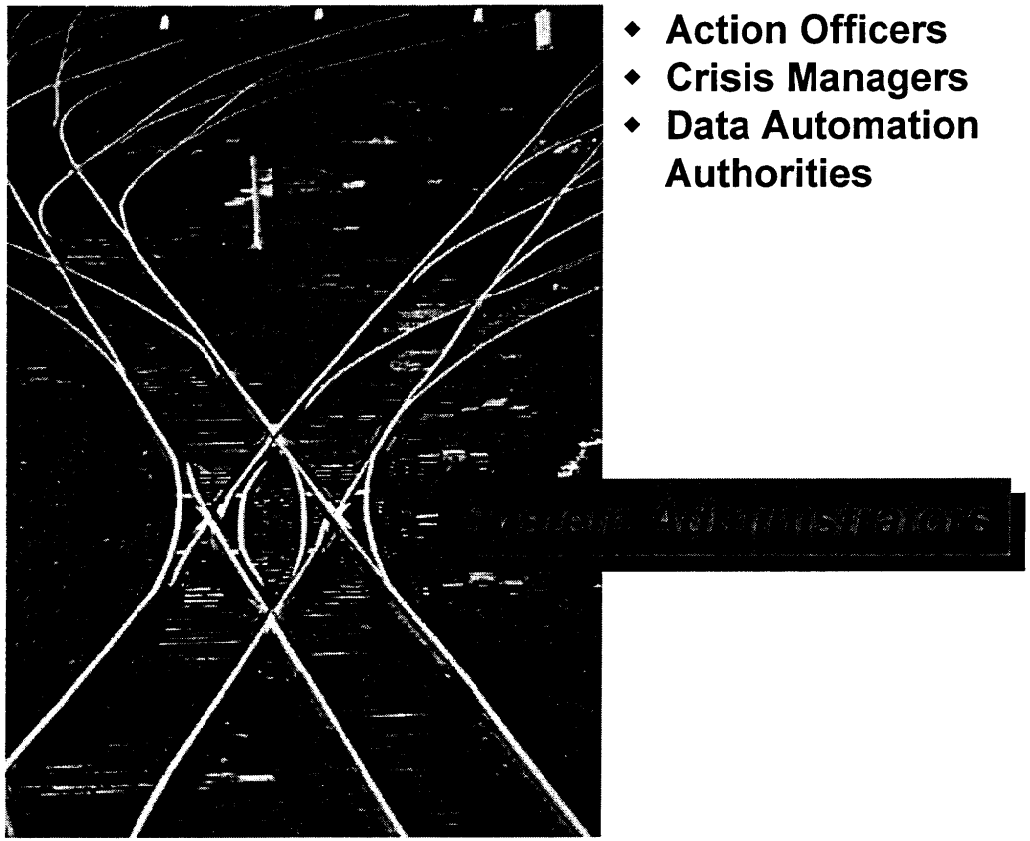
- Series of high-level reports and assessments highlighting need for “professionalization” of military, civilian and contractor personnel performing systems administration functions
  - DSB Report, Nov 96, Finding #10
  - GAO Report, May 96

- Recent events demonstrate need for skilled system administrators to maintain configurations
  - Eligible Receiver ‘97

- Requirement for DOD SA Licensing Program briefed to MCEB Sep 97
  - SIPRNet SA licensing to be completed NLT Jan 99

Licensing Focus

- Information Systems Security Officers/ Information System Security Managers
- Network Managers
- Certifiers
- Incident Response Teams
- Data Base Administrators



- Action Officers
- Crisis Managers
- Data Automation Authorities

"Other System Professionals"

"Other Users"

DOD Notional Sys Admin Criteria (Government System-OSD)

Operating System

Sustainment

Microsoft Windows NT certificate

20 working days

$6,000

Security Features

Sustainment

INFOSEC for System Administrators (Windows NT)

10 working days

TDY costs

Environment

OSD System Operations (OJT)(local implementation)

10 working days

Time vs $

DOD Notional Sys Admin Criteria (GCCS)

Sustainment

Operating System

UNIX System Administrator
15 working days
$3,800

Sustainment

Security Features

INFOSEC for System Administrators (UNIX)
10 working days
TDY costs

Environment

GCCS System Operations (OJT)(local implementation)
10 working days
Time vs $

System Administrator Licensing

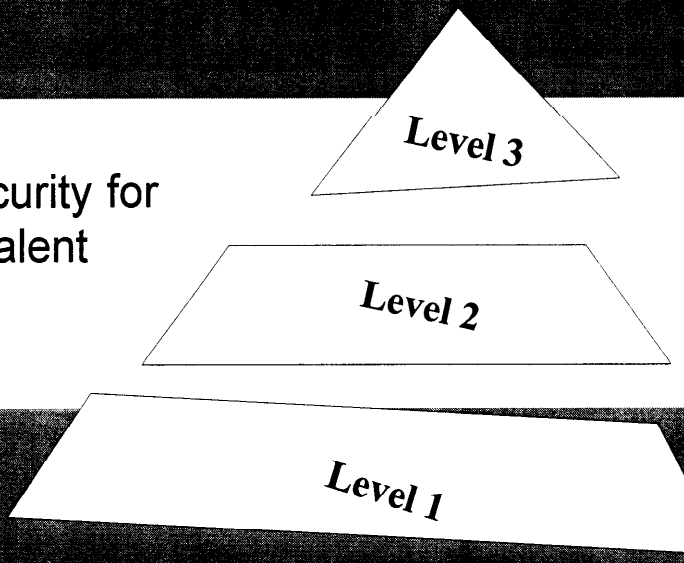
DISA Approach

Level 3
- Level 2 licensing, **AND**
- Knowledge of multiple OS
- 5+ years experience

Level 2
- Level 1 licensing, **AND**
- INFOSEC 310 (Windows NT Security for System Administrators), **OR** Equivalent (for specific operating system)
- 3+ years experience

Level 1
- OS knowledge (commercial)
- 0-3 year experience

And ONE of the following
- INFOSEC Basics (CBT) and OISS (Operational Information System Security) (Vol 1&2) (CBT), **OR one of the following classroom courses**
- INFOSEC 300 (INFOSEC for ISSOs/ISSMs) (Classroom) OR
- ND-225 (Operational Computer Security) (Classroom), OR
- ISSB (Information System Security Basics) (Classroom), OR
- Equivalent course



User Licensing

Army Approach

- Issue password AFTER successful completion of initial awareness indoctrination

- Vehicles for user licensing
  - DISA INFOSEC Awareness CBT
  - DOD INFOSEC Awareness CBT
  - Equivalent

MISSI

IPMO MISSI ETA Strategy

FORTEZZA & CAW

- **Apply general strategy**
  - Champion products
  - Leverage existing forums
  - Rely on existing infrastructure
- **Leverage *MISSI Life Cycle Support Working Group***
- **Transition to Government "owned" courses w/delivery by existing training infrastructure**
- **Develop CBT products to minimize time in classroom**
- **Service/Agency**
  - Deliver training via existing infrastructure

FORTEZZA Installers Course

FORTEZZA for Win 3.1

- **Platform (3 days): Focus on applications & trouble shooting**

- **Computer-based Training (CBT) (9 hours)**
  - **Covers entire course**
  - **Documentation**
  - **Practical Exercises**
  - **Web-sites for more information**

- **MISSI Familiarization Video *(Exploring MISSI)*(10min)**
  - **Standalone**
  - **Insert in all System Admin training courses**

- **Tobyhanna Army Depot: DOD Trainer for FORTEZZA Installers Course**
  - **DISA provided exportable package; NSA provided equipment**
  - **NSA to ensure "hot line" for training technical assistance (I-800-GO MISSI)**
  - **Cost per course @ Tobyhanna (up to 15 students): ~$4,500**

Approach to CAW Training

- Start with NSA developed course materials
  - CAW 4.2; platform course
  - Identify portions suitable for transitioning to CBT/video

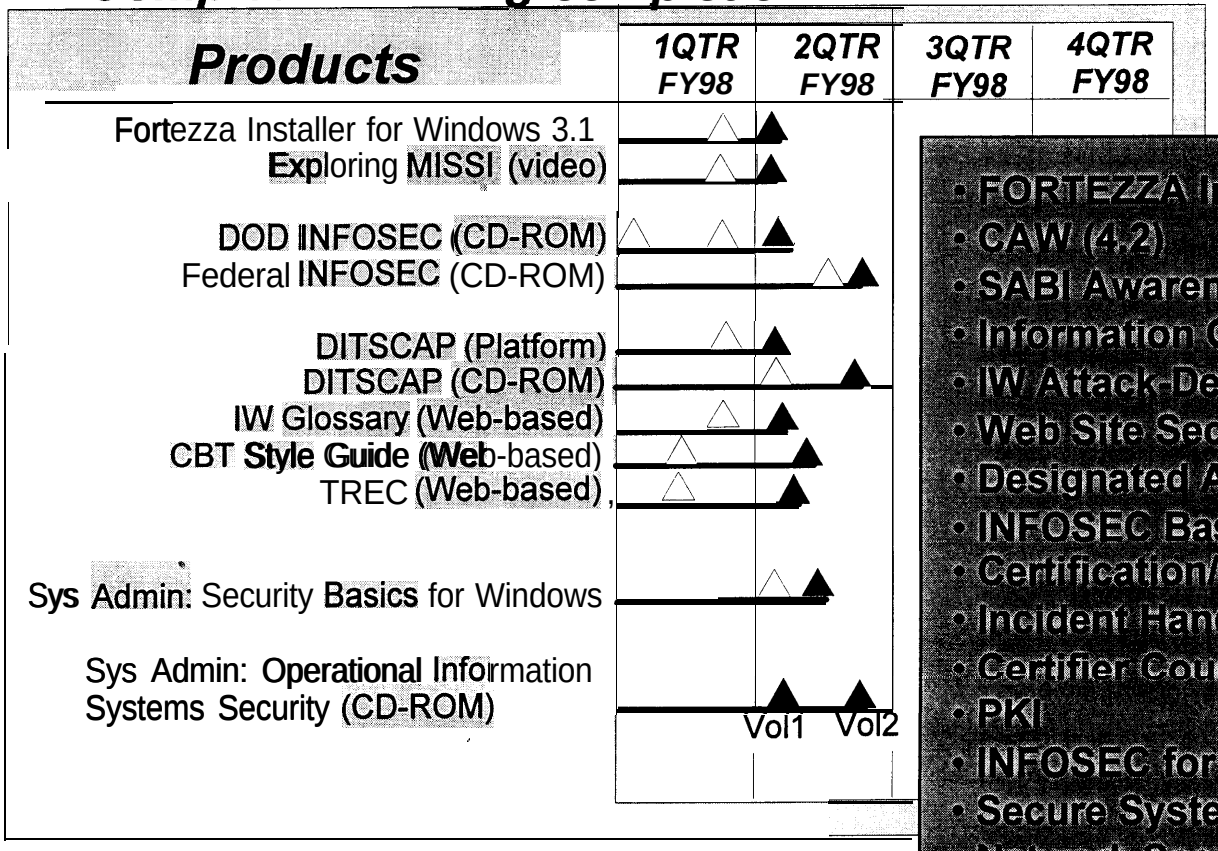
- Develop associated "connected" CBT
  - Full interactive/multimedia functionality on CD-ROM
  - Run on network or individual workstations with CD-ROM readers
  - Linked to web site for training updates

- Use
  - Reduce time in classroom
  - Reference
  - Refresher

Summary

On the Horizon

Completed/nearing completion

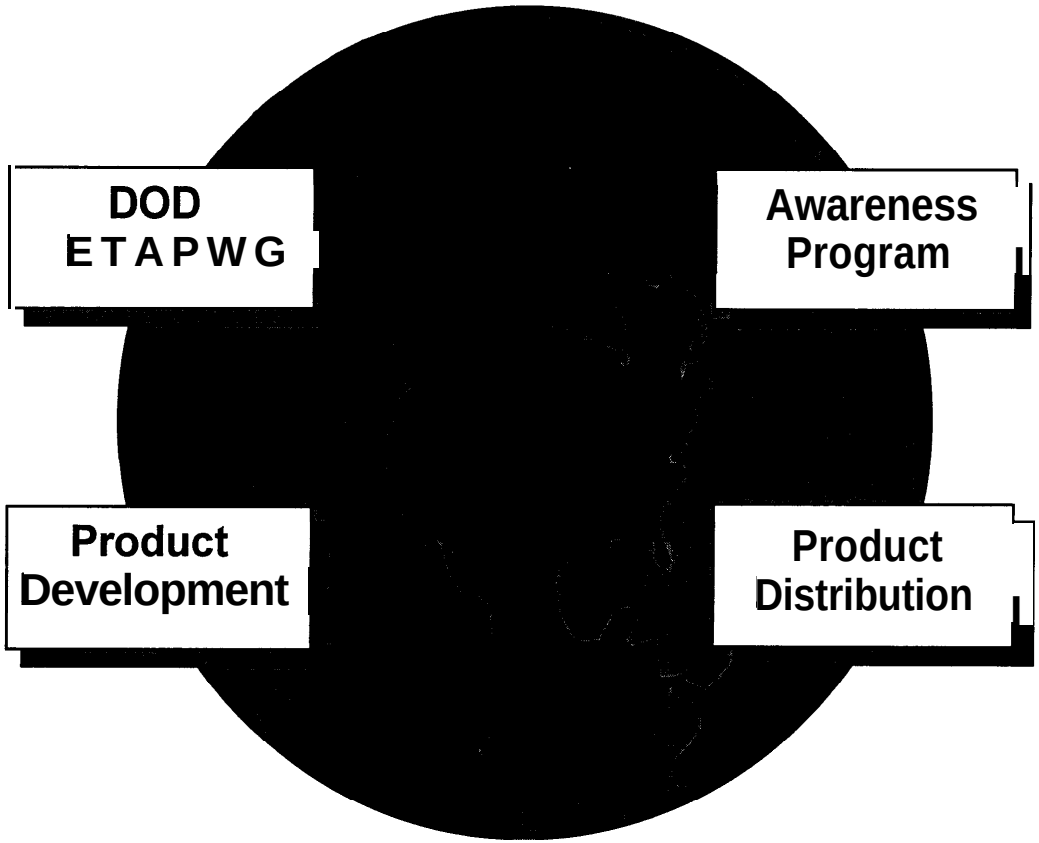


Underway

- FORTEZZA Installer for Windows NT
- CAW (4.2)
- SABI Awareness
- Information Operations Awareness
- IW Attack-Defend Desktop Exercise
- Web Site Security
- Designated Approving Authority (DAA)
- INFOSEC Basics
- Certification/Licensing Review Course
- Incident Handling Procedures
- Certifier Course
- PKI
- INFOSEC for System Administrators
- Secure Systems (NPS)
- Network Security (NPS)
- ETA Requirements Database

DOD INFOSEC ETA&P POCs

http://www.disa.mil/infosec

http://mattche.iiee.disa.mil *(.mil & .gov only)*

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