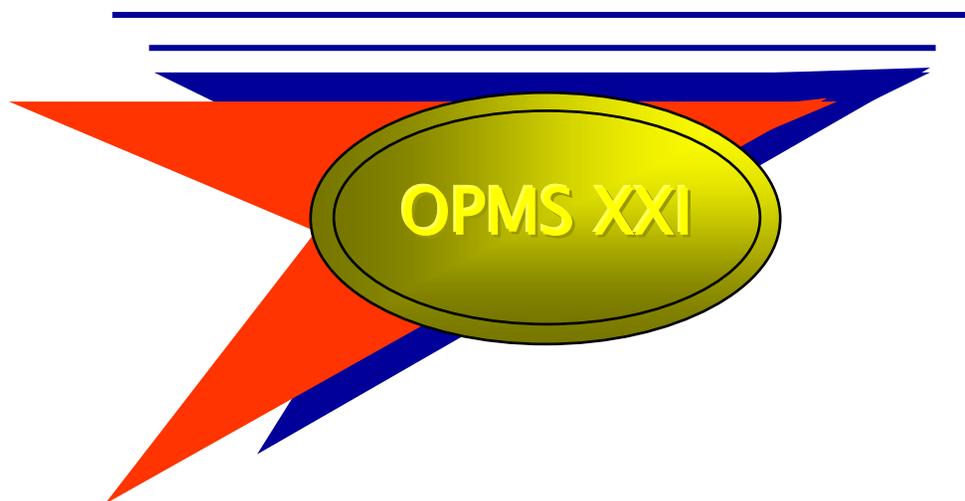


Telecommunication Systems Engineer Course

FA24



05 December 2002



Purpose

**To give an information
briefing on FA 24 training
to the FA 24/53 Focus
Group**

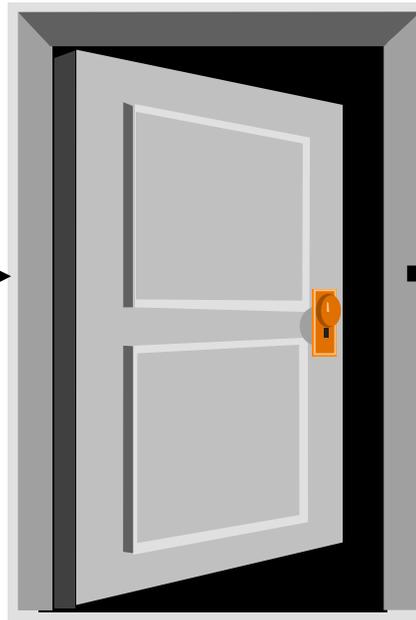


Agenda

- FA 24 Training Overview
- ISOL Curriculum
- TSEC Curriculum
- ACE evaluation
- Partnership
- Questions



FA 24 Training Today



FA 24
Telecomm Systems
Engineers

Artillery Ordnance
Armor **BS Undergrad Degree** Infantry
Air Defense Signal Aviation

30 weeks

- ✓ Industry Certification
- ✓ Graduate credits



ISOL Curriculum

| Module | Description | Hours |
|--------|--|-------|
| ISOL A | Introduction to the Signal Regiment | 14 |
| ISOL B | Basic Electronics | 40 |
| ISOL C | Hardware | 8 |
| ISOL D | Operating Systems | 8 |
| ISOL E | Cisco Academy 1 st Semester | 64 |
| ISOL F | Cisco Academy 2 ^d Semester | 56 |
| ISOL G | Cisco Academy 3 rd Semester | 56 |
| ISOL H | Cisco Academy 4 th Semester | 56 |
| ISOL I | IASO Security Course (CBT) | 24 |

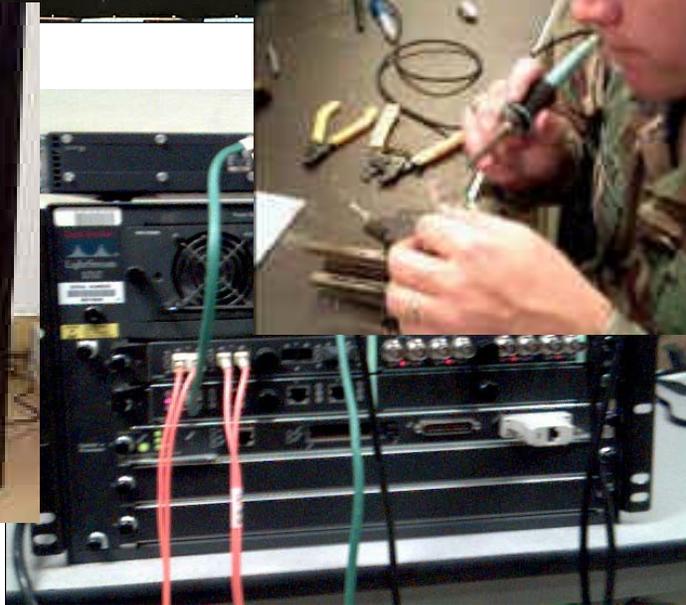
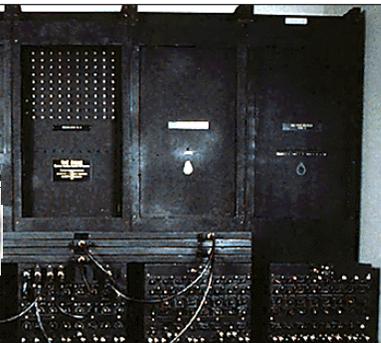


TSEC Curriculum

| Module | Description | Hours |
|--------|--|-------|
| TSEC A | Math for Networking | 75 |
| TSEC B | C-Programming | 59 |
| TSEC C | Telecom Systems Models | 144 |
| TSEC D | Data Communications | 176 |
| TSEC E | Switching | 88 |
| TSEC F | Information Assurance | 96 |
| TSEC G | Network Operations & Management | 104 |
| TSEC H | Network Design | 120 |
| TSEC I | Legacy & Future Tactical Comms Systems | 80 |
| TSEC J | Group Thesis | 71 |



Hands-on Practical Exercises



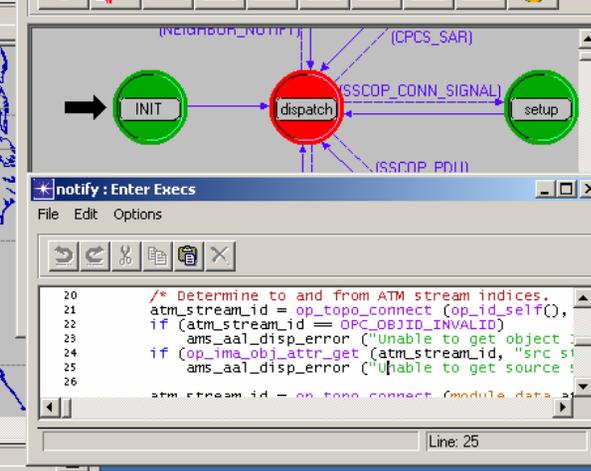
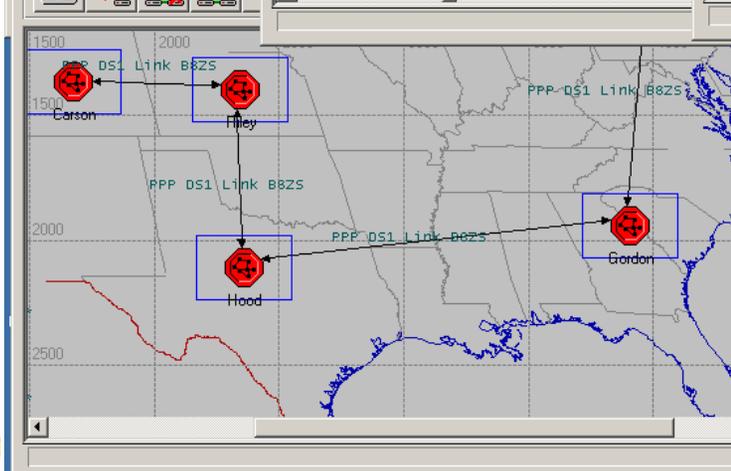
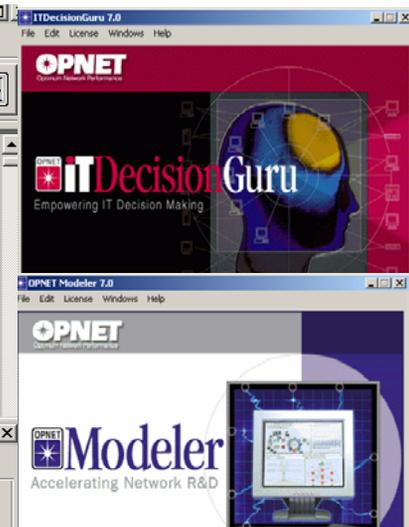
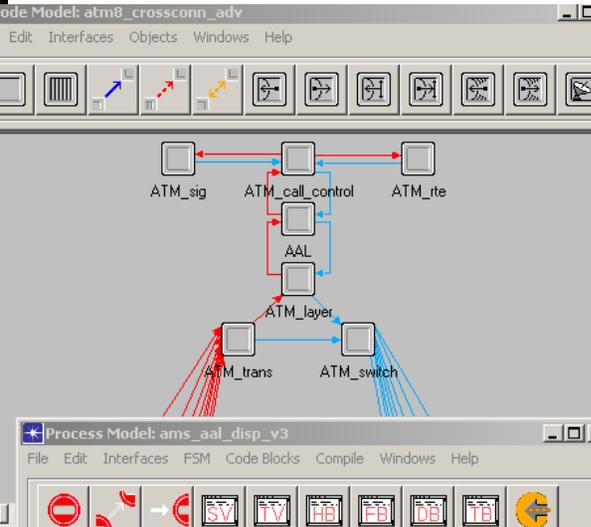
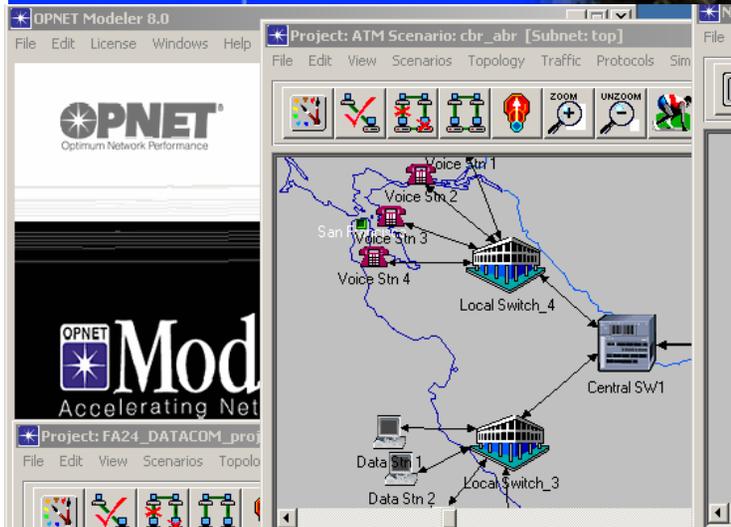
GENERAL DYNAMICS

Telecom Systems Engineer Course

FA24

OPNG XXI

Modeling & Simulation



Group Research Projects

TSEC 501-01

- MSE Telecomm Functional Model

TSEC 502-01

- MSRT – RAU Interface Layered Model

TSEC 01-02

- Improving Spectral Efficiency
- Technical Costs of Implementing a VPN
- Network Management Plan for 93d Sig Bde



CAPSTONE EXERCISE



3 DAYS



442nd Signal Bn



93RD Signal Bde



Battle Command Battle Lab

Telecom Systems Engineer Course



ACE EVALUATION

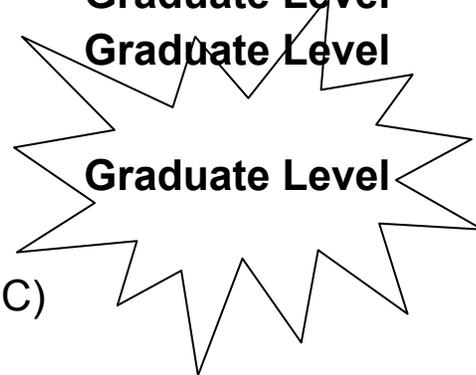
- **American Council on Education Evaluation Results of Curriculum:**

| | | |
|--------------------------------|-----------|------------------------------|
| – C Programming | 3 credits | Lower Division Baccalaureate |
| – Mathematics | 3 credits | Upper Division Baccalaureate |
| – Telecommunications Systems | 3 credits | Graduate Level |
| – Data Communications | 6 credits | Graduate Level |
| – Digital Transmission Systems | 3 credits | Graduate Level |
| – Switching | 3 credits | Graduate Level |
| – Information Assurance | 3 credits | Graduate Level |
| – Network Management | 3 credits | Graduate Level |
| – Network Design | 6 credits | Graduate Level |
| – Legacy/Future Systems | 3 credits | Graduate Level |

- **Total possible credits** **30 credits**

- **Recommended for Transfer** **9 credits**

- University of Maryland, University College (UMUC)
- University of Colorado, Boulder, CO



FA 24 Graduates

| LTC Hull, George | IN | DISA |
|-------------------------|-----------|--------------------------------------|
| MAJ Blair, Eric | AR | ARCENT G6 |
| MAJ Brock, Dirk | MI | Defense Threat Reduction Agency |
| MAJ Burton, Lou | SC | 335 TH SIG CMD |
| MAJ Cypher, Ken | SC | CGSOC |
| MAJ Rehn, Steven | MI | CGSOC |
| MAJ Miller, Billy | SC | Korea (USFK J6) |
| MAJ Morgan, Dwight | AD | Army Test & Evaluation Center |
| MAJ Powers, James | SC | SOUTHCOM J6 |
| CPT Baier, Scott | SC | ISEC (Technology Integration Center) |
| CPT Dunlop, Matt | EN | Ft Leavenworth |
| CPT Hartzog, Brian | AV | Army Training Support Center |
| CPT Lawrence, Ken | SC | LIWA |
| CPT Mattei, Mark | SC | Ft Bragg (SOC) |
| CPT Powell, Paul | SC | Germany (5th Sig Cmd/EUCOM) |
| CPT Ramos, Robert | OD | Hawaii (Acquisition slot/51R) |
| CPT Tung, Brian | AV | Indian National Guard |
| CPT Wagstaff, Hubert | SC | Fort Gordon (FA 24 Instructor) |

18 Graduates

50% BR 25



Current FA 24 Class

Graduate Jan 03.

| | | |
|-------------------------|----|--------------------------|
| LTC Bastian, Jerold | AV | STRATCOM |
| LTC Jones, Alan | TC | DISA |
| LTC Lee, Gilbert | SC | OPTEC |
| LTC Weigeshoff, William | MI | EUCOM J2 |
| MAJ Grimm, Chris | SC | CGSOC |
| MAJ Leach, Charles | SC | DISA |
| MAJ Roper, Anthony | FA | ARCENT G6 |
| CPT Guerrero, Julian | FA | EUCOM J6 |
| CPT Shepard, Anthony | SC | LIWA/1 ST IOC |
| CPT Olson, Roger | SC | WAR COLLEGE//MS GP |
| CPT Tischler, Brad | TC | 1 ST SIG BDE |



11 Students



45% BR 25

Partnerships



USAISEC



DISA

Telecom Systems Engineer Course

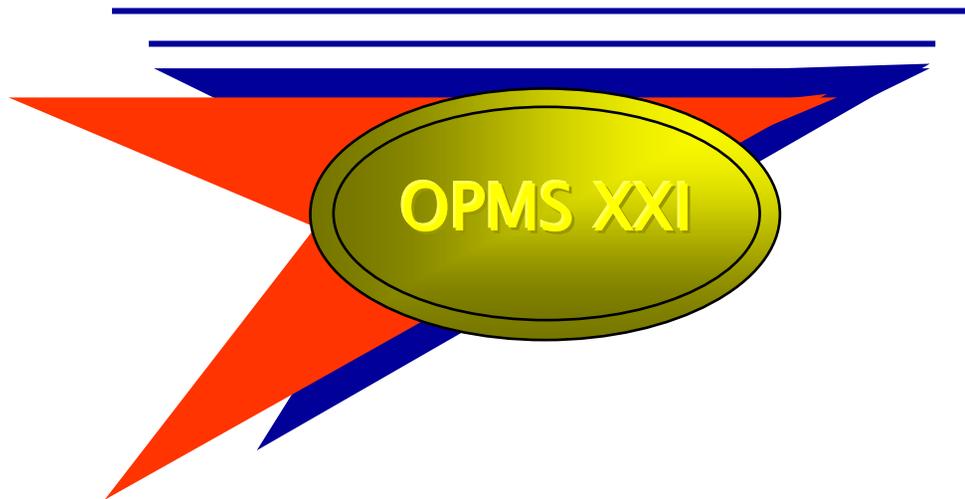


FA24

OPNG XXI

What we do in the Field

FA24





ISEC Mission Areas

ENGINEER A SECURE,
WORLD CLASS NETWORK
FOR OUR WORLD CLASS
SOLDIERS.



Strategic Information Systems

Design, integrate & engineer Army Info Systems between Post, Camp or Station Delivery Points

Enterprise Wide Automation

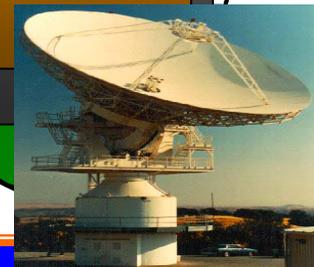
Design, integrate & engineer corporate level information management solutions using COTS/NDI

Information Transport Infrastructure

Design, integrate & engineer Army Info Systems inside Post, Camp or Station Delivery Points

Technology Integration for Information Systems

Evaluate COTS/NDI for insertion into Government Information Systems





DEFENSE INFORMATION SYSTEMS AGENCY

WE SUPPORT DOD DECISION SUPERIORITY



Core Mission Areas:

Defense Information Systems Network (DISN)

Information Assurance (IA)

Defense Messaging Systems (DMS)

Global Combat Support System (GCSS)

Global Command and Control System (GCCS)

Common Operating Environment (COE)

DISA Network Services (NS)

Technical Integration Services (TIS)

Questions

FA24

