



WHAT IS A TELECOMMUNICATIONS SYSTEMS ENGINEERING OFFICER?



FA 24



Functional Area 24 (Telecommunications Systems Engineering) provides the Army with a core of professional telecommunications systems engineers to support the nation's full spectrum dominance strategy for the 21st Century. Telecommunications Systems Engineering officers engineer, design, develop, install, implement, integrate, test, accept, and upgrade telecommunication systems and networks in support of Army, Joint, Combined, and Department of Defense operations worldwide. FA 24 is a functional area within the Information Operations Career Field (IOCF).



FA 24 Functions



- **Plan, direct and supervise the installation, modification, test and acceptance of telecommunications systems and equipment.**
- **Design, develop and ensure compliance of telecommunications systems and networks.**

- DA PAM 600-3 (DRAFT)



FA 24 Functions



- **Test and evaluate hardware and software for developmental and non-developmental items.**
- **Plan, design and manage the integration of diverse types of telecommunications systems into interoperable networks.**

- DA PAM 600-3 (DRAFT)



FA 24 Functions



- **Gather functional requirements from telecommunications systems and translate these into technical solutions that are standards-based and cost efficient.**
- **Develop network architecture for adjacent, higher and lower units, as well as for allied nations, other government agencies and commercial services interfaces.**



FA 24 Functions



- Perform staff functions requiring telecommunications systems engineering expertise, such as quality assurance and control, security, configuration management, and network control.
- Serve as a technical representative to the contracting officer and technical consultant on telecommunications systems engineering matters.



AOC 24A



Telecommunications Systems Engineer

Requires the application of electrical, electronic and systems engineering theory and principles to design, develop, install, implement, integrate, test and accept local and wide area telecommunications systems.

-DA PAM 600-3 (DRAFT)



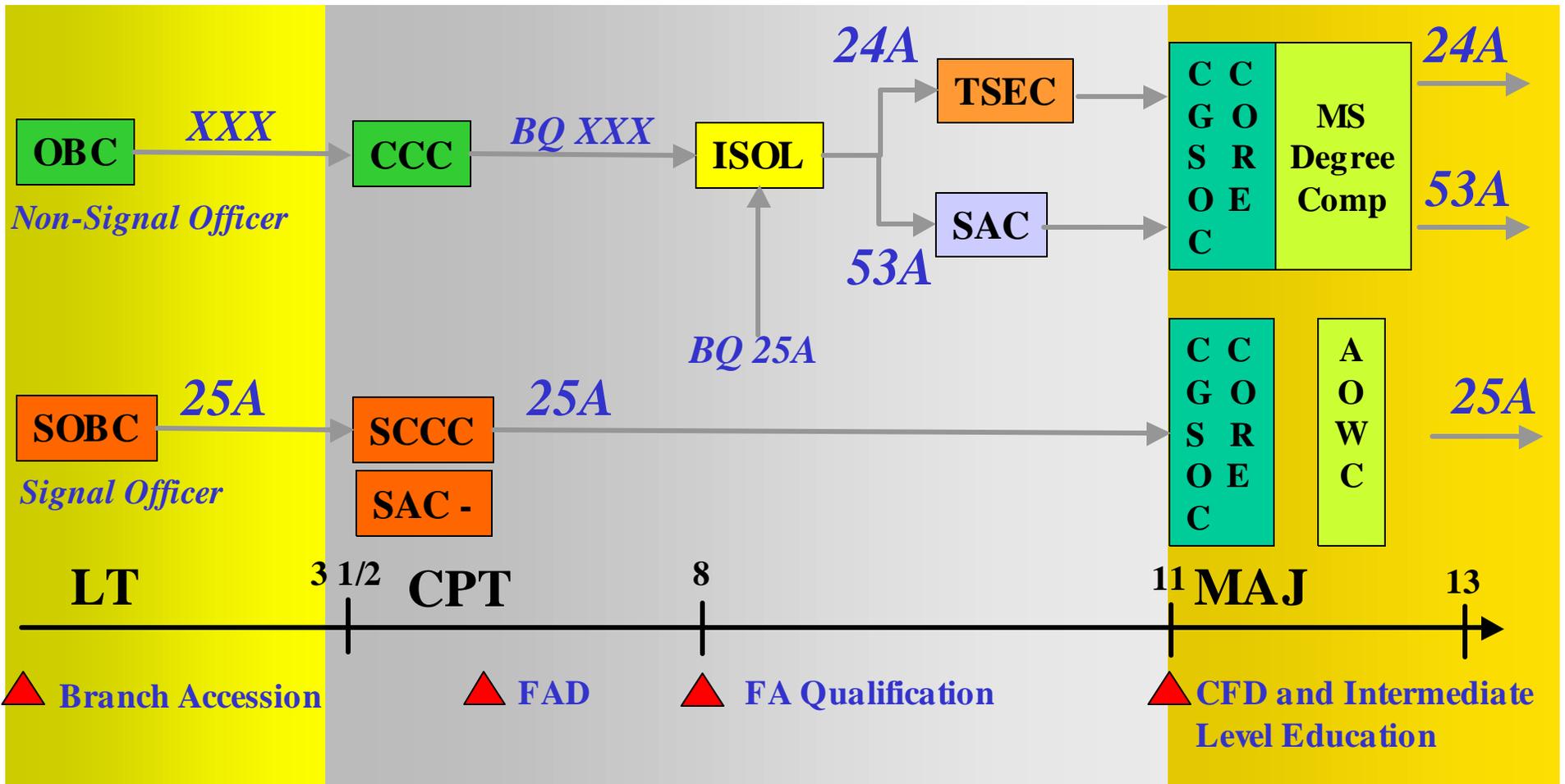
Signal Regiment Objective OPMS XXI Training Strategy



Lieutenant

Captain

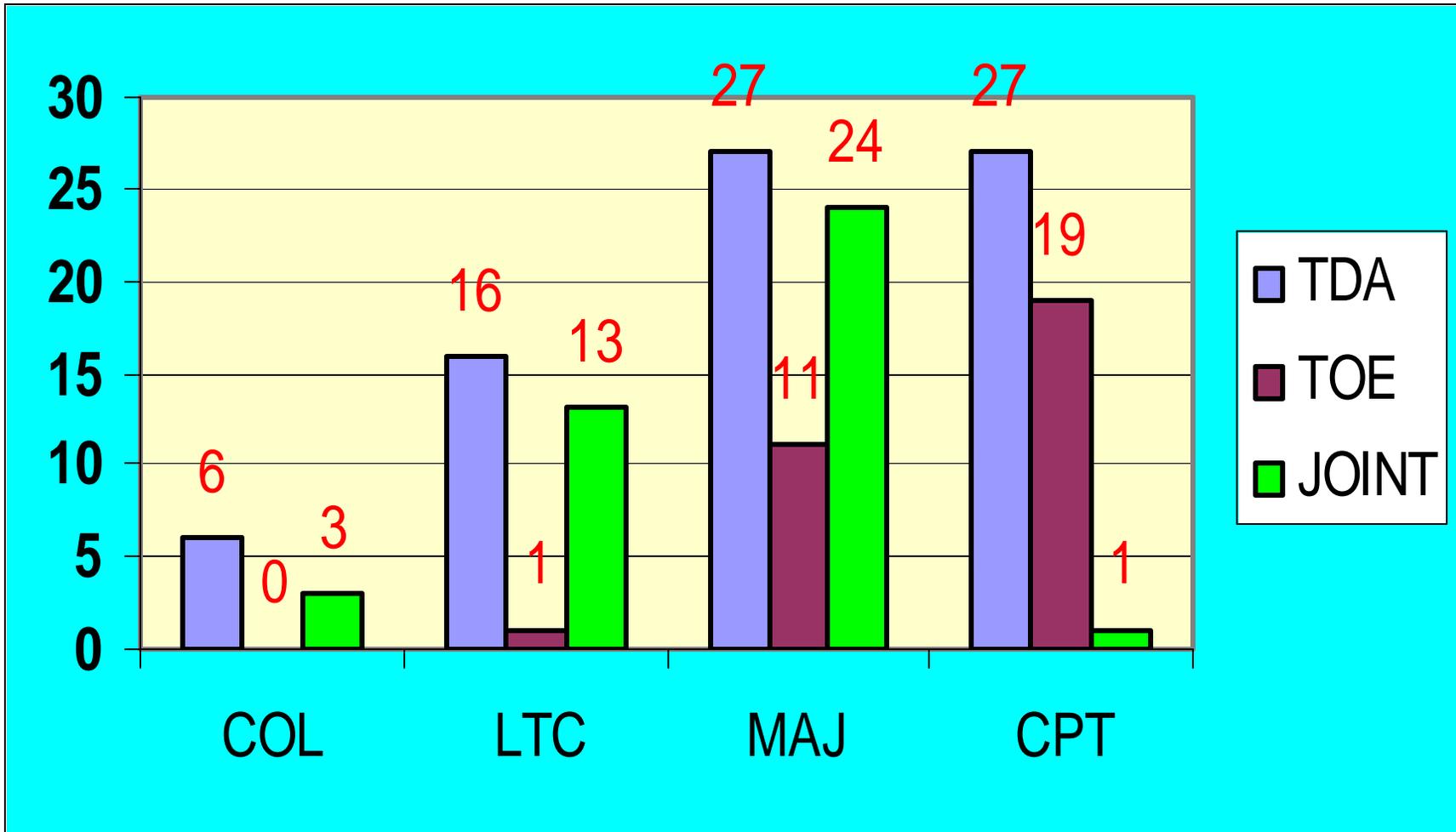
Major (Notional)



ISOL	Information Systems Operations Leveler Course	SCCC	Signal Captain's Career Course
SAC	Systems Automation Course	SOBC	Signal Officer Basic Course
TSEC	Telecomm Systems Engineering Course	FAD	Functional Area Designation
CGSOC	Command & General Staff Officer Course	CFD	Career Field Designation
AOWC	Advanced Operations Warfighting Course	MS	Master of Science Degree

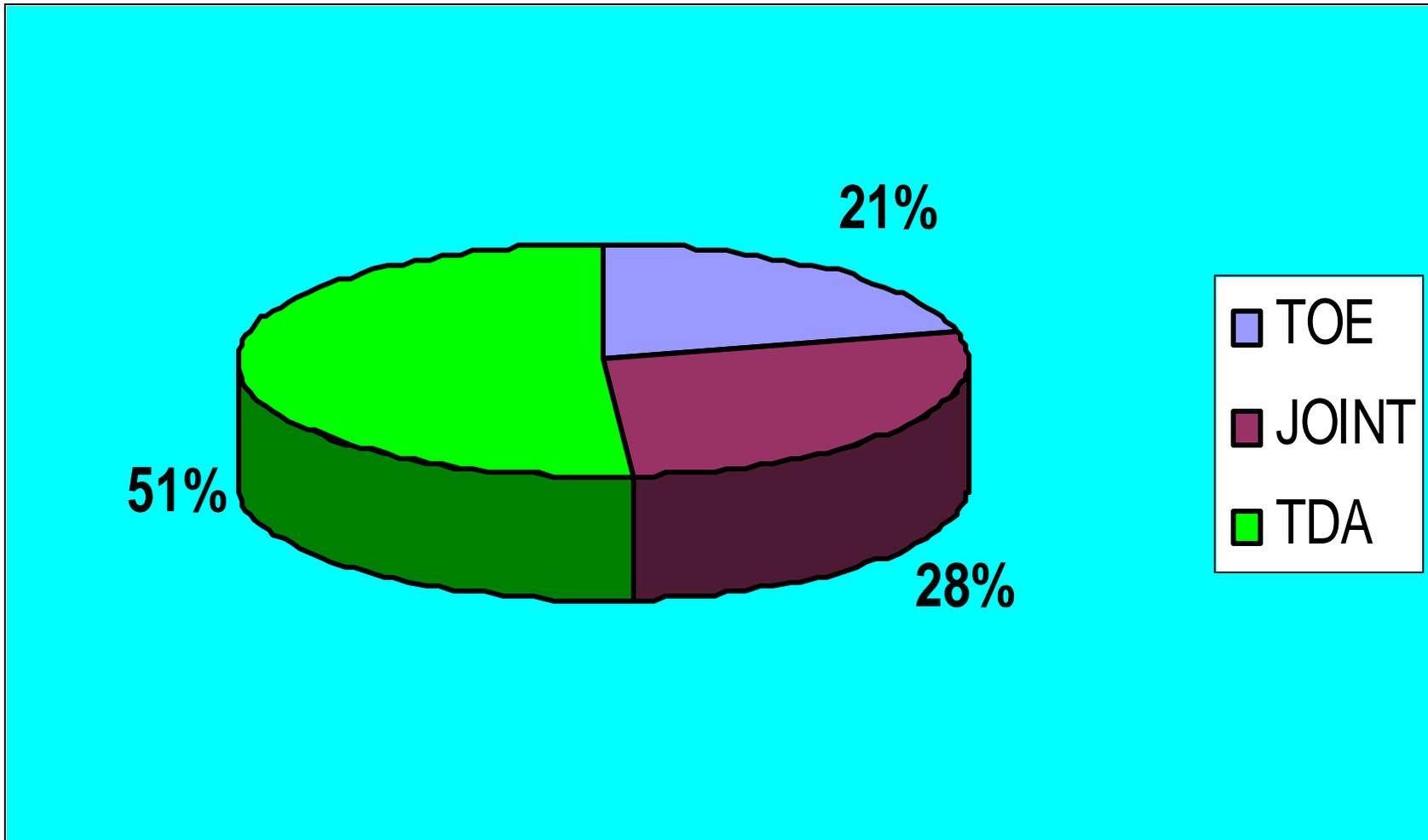


FA24 Structure





FA 24 Authorizations





24A Captain TDA Jobs



LNAME_TDH	PARTL	PSNTL
USA 99TH REGIONAL SUPPORT COMMAND FULL TIME SUPPORT	WZNJAA 0392 HHD BN	C-E OFFICER
USA 81ST REGIONAL SUPPORT COMMAND FULL TIME SUPPORT	W0FD03 0335SIGCOM ENHA	SYSTEMS ENGINEER
HQ USARMY SPECIAL OPERATIONS SUPPORT COMMAND	THEATER SIGNAL OFFICE	NETWORKING OFF
US ARMY SIGNAL CENTER AND FT GORDON	LDR DEV DIV	CHIEF, INSTR/WTR
USAE DISA EUROPE	EU22 VOICE SYS BR	INFO SYS OFF
USAE DISA EUROPE	EU72 TRANS NTWK BR	TRANS NTWK
US ARMY LAND INFORMATION WARFARE ACTIVITY	CONCEPT DEV & REQ BR	AIS OFF
US ARMY LAND INFORMATION WARFARE ACTIVITY	ADV CNCPT & TECH APP	IO SYS OPS
STAFF AND FACULTY U S MILITARY ACADEMY	EECS	INSTRUCTOR
W1FT USA ELE JT BTL CTR	SYSTEM & TECH DIV	C4ISR SYS ENGI
3D BRIGADE 85TH DIVISION TRAINING SUPPORT	OPERATIONS	COMMO OFF
3D BRIGADE 85TH DIVISION TRAINING SUPPORT	CS CO	TM CHIEF
2D BRIGADE 87TH DIVISION TRAINING SUPPORT	SC CO	TM CHIEF
USA INFORMATION SYSTEMS ENGINEERING COMMAND	FORCE PROJ ENG	INFO SYS & NTWK
U S ARMY ELM JOINT COMMUNICATIONS SUPPORT ELEMENT	SWITCHING SECTION	SWITCH SECTION OIC
USA NETWORKS ENGINEERING AND TELECOMMUNICATIONS ACT	DSED	INFO SYS ENGINEER
W3E9 US ARMY TNG SPT CNTR	TNG SUPPORT DIV	CE SYS ENGINEER
W3U6 CTR US ARMY EVALUATION CT	C3 EVAL DIV #2 MDW	EVAL OFF
US ARMY TRAINING AND DOCTRINE COMMAND	AE DIRECTORATE	COMM INFO OFF
US ARMY TRAINING AND DOCTRINE COMMAND	FORCE XXI, JOINT VEN	INFO SYS OFF
USA FORCES CENTRAL COMMAND SAUDI ARABIA	HHC	COMMANDER
US ARMY SIGNAL ACTIVITY INSCOM	OFC OF THE DIRECTOR	EXEC OFFICER
US ARMY SIGNAL ACTIVITY INSCOM	ASA DET	SIG OPNS CDR
US ARMY NATIONAL TNG CEN OPERATIONS GROUP	COMMUNICATIONS SECTION	CE OFFICER
USAINSCOM MISSION SUPPORT COMMAND	MICD-E	SYS AUTO OFF
US ARMY JOINT READINESS TNG CEN OPS GROUP	COMMO SECTION	CE SYS OFF O/C
7TH HQ HHC USAREUR 7TH ARMY AUG	ODCSINT, INTEL	INFO S&N ENG



24A Captain TOE/JOINT Jobs



LNAME_TDH	PARTL	PSNTL
USAE DISA JIEO D6	JEEEB SATCOM TEST & IM	N ELEC ENGR OFR
39TH SIGNAL BN HHD	RSC CHIEVRES	C-E ENGR OFFICER
39TH SIGNAL BN HHD	RSC SCHINNEN	C-E ENGR OFFICER
HHC, 11TH SIGNAL BRIGADE	SIG ENGINEERING BR	SYSTEMS ENGINEER
40TH SIGNAL BATTALION	S2/S3 SECTION	SYSTEMS ENGINEER
69TH SIGNAL BN HHD	OPS SYS INT DIVISION	C-E ENGR OFFICER
69TH SIGNAL BN HHD	RSC GRAFFENWOEHR	C-E ENGR OFFICER
304TH SIGNAL BN	OPS/INTEL SECTION	SYSTEMS ENGINEER
385TH SIGNAL CO	SYSTEMS OPERATIONS	SYS OPS OFFICER
1ST SIGNAL BDE HHC	SIG ENGINEERING BR	SYSTEMS ENGINEER
1ST SIGNAL BDE HHC	ENGINEERING BRANCH	TRANS ELEC ENGR
44TH SIGNAL BN	OPS/INTEL SECTION	SYSTEMS ENGINEER
52D SIGNAL BN HHD	OSID	C-E ENGR OFFICER
43D SIGNAL BN HHD	HEIDELBERG DSN	C-E ENGR OFFICER
67TH SIGNAL BN	OPS/INTEL SECTION	SYSTEMS ENGINEER
86TH SIGNAL BATTALION	S2/S3 SECTION	SYSTEMS ENGINEER
63D SIGNAL BN	OPS/INTEL SECTION	SYSTEMS ENGINEER
307TH SIGNAL BN	OPS/INTEL SECTION	SYSTEMS ENGINEER
7TH SIGNAL BDE HHC	SIG ENGINEERING BR	SYSTEMS ENGINEER
93D SIGNAL BRIGADE HHC	SIG ENGINEERING BR	SYSTEMS ENGINEER

TOE
 JOINT



24A Major TDA Jobs



LNAME_TDH	PARTL	PSNTL
U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND	DIR, TATRC	PROG ANAL/DCD
USAE DISA WHCA	WHGAA TELECOM CERT OFC	CHIEF
USA 81ST REGIONAL SUPPORT COMMAND FULL TIME SUPPORT	W0FD02 0335FT MCPHERSO	SYSTEMS ENGINEER
USA 81ST REGIONAL SUPPORT COMMAND FULL TIME SUPPORT	W0FD02 0335FT MCPHERSO	SYSTEMS ENGINEER
DEPUTY CHIEF OF STAFF FOR INTELLIGENCE	INTERNATL RELATIONS DI	INTEL STF OFF
DEPUTY CHIEF OF STAFF FOR INTELLIGENCE	INTEL INFO MGT DIR	C4I SYS OFF
USAE DISA	DD OFC OF VICE DIR	EXEC ASST
U S ARMY ELEMENT AIR FORCE ACTIVITIES	OFC SEC OF AF	C-E ENGINEER
US ARMY LAND INFORMATION WARFARE ACTIVITY	ACTY INTEGRATION OFC	AIS OFFICER(CECOM)
STAFF AND FACULTY U S MILITARY ACADEMY	BUS OPNS DIV	C, BUS OPNS DIV
STAFF AND FACULTY U S MILITARY ACADEMY	EECS	INSTRUCTOR
DEFENSE THREAT REDUCTION AGENCY	(6430) SFTY/COM	B0402 COMM ELECOFF
US ARMY ELEMENT JOINT SPECTRUM CENTER	JS6 SPECTRUM MGT-INFO	ASST OPNS OFF
US ARMY ELEMENT JOINT SPECTRUM CENTER	JS8 ACQUISITION SPT DI	TEAM LEAD
FIRST UNITED STATES ARMY	INFO CTR DIV	COMMO OFF
US ARMY COMBAT DEVELOPMENTS ACTIVITY	LIGHT AXIS DIVISION	INFO SYSTEMS OFF
US TOTAL ARMY PERSONNEL COMMAND	INFO OPS CF BR	ASG OFF
USA ELEMENT DISA INFORMATION TECHNOLOGY PROCUREMENT ORG	DSC42 DISN SVC CTR	COMM SYS ENGR
USA FORCES CENTRAL COMMAND SAUDI ARABIA	COMMUNICATIONS SECTI	ACOF5 G6
US ARMY RESERVE COMPONENT SUPPORT TEAM	1SIM EX GP HQ	C2 O/C
US ARMY RESERVE COMPONENT SUPPORT TEAM	2SIM EX GP HQ	C2 O/C
W49R HQ 5TH USA RC SUPPORT TM	SIM EXERCISE GROUP	CE O/C
USA CECOM RESEARCH DEVELOP AND ENGINEER CTR FT MONMOUTH	INFO OPS SUP DIV	PROJ ENGR
USAE DISA JIEO D6	JTA WARFGT SPT DIV	JT C4I WSO
USAE DISA JIEO D6	JEEA DII/IDM INTEL NTW	JT C3 STAFF OFCR
USAE DISA JIEO D6	JEEGC VTC SERVICES BR	N DEV SYS ENGR
USAINSCOM MISSION SUPPORT COMMAND	MICD-E	ELECTRONIC ENGR



24A Major TOE Jobs



LNAME_TDH	PARTL	PSNTL
102D SIGNAL BN HHD	RSC HANAU	C-E ENGR OFFICER
43D SIGNAL BN HHD	RSC KLN	C-E ENGR OFFICER
5TH SIGNAL COMMAND HHC	TELECOM ENG BRANCH	SYSTEMS ENGINEER
5TH SIGNAL COMMAND HHC	PLANS SWITCHING BR	SYSTEMS ENGINEER



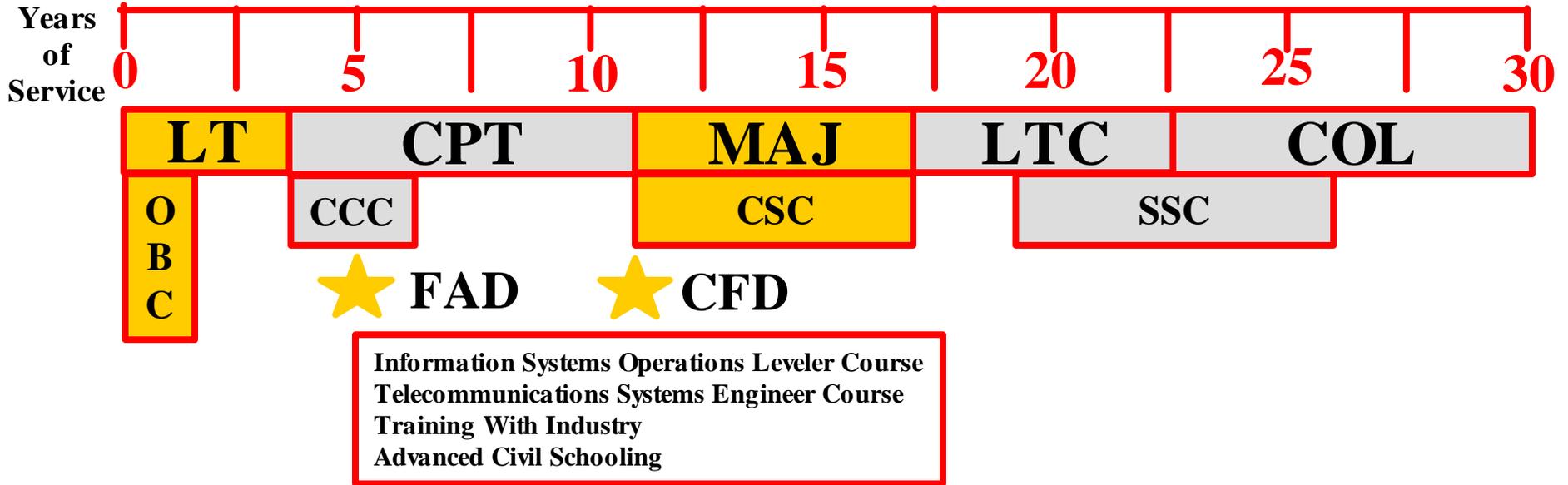
24A Major JOINT Jobs



LNAME_TDH	PARTL	PSNTL
U S ARMY ELEMENT U S EUROPEAN COMMAND HQ	SYSTEMS BRRANCH	COMMS OFF
U S ARMY ELEMENT U S EUROPEAN COMMAND HQ	JT FREQ MGT OFC - EUR	RAD FREQ ENGR OFF
U S ARMY ELEMENT U S EUROPEAN COMMAND HQ	INTERNATIONAL SPT OFC	RADIO FREQ ENGR OF
U S ARMY ELEMENT U S EUROPEAN COMMAND HQ	SWITCHED SYS BR	C-E SYS ENGR
U S ARMY ELEMENT U S EUROPEAN COMMAND HQ	INFORMATION SYS BR	JT INFO SYS OFF
U S ARMY ELEMENT SOUTHERN COMMAND HQ	PLANS & EXER BR	C-E ENGR OFF
US ARMY ELEMENT INTERNATIONAL MILITARY ACTIVITY NATO	ACQUISITION DIV	ADP SYS ENG
US ARMY ELEMENT INTERNATIONAL MILITARY ACTIVITY NATO	ACQUISITION DIV	COMM SYS ENG
USAE DISA WHEM JSSC	JC42 NMCC COMM WATCH	NMCC WATCH OFFICER
USAE DISA EUROPE	EU21 DATA SYS BR	INFO SYS NTWK OFF
USAE DISA EUROPE	EU8 PROVISIONING DIV	CH, PROV DIV
USAE LAND CENTRAL EUROPE	A6 DIVISION	CHIEF
U S ELM ALLIED FORCES SOUTHERN EUROPE AFSOUTH	JNT OPNS CENTER	OPNS OFF INFO M
US ARMY ELEMENT US SPACE COMD	(6120) ARCHITECTURE BR	INFO OPS SYS OFCR
U S ARMY ELE HEADQUARTERS LANDSOUTH	OPNS, PLANNING & CO	CHIEF
U. S. ARMY ELEMENT JOINT SUB REGIONAL COMMAND SOUTH CTR	CIS REQ BRANCH	CHIEF
W46S A ELE COMPUTER NTWK DEF	J3/J6, OPNS DIV	WATCH OFCR
US ARMY ELEMENT UNITED NATIONS	PGMS BR	PGM STF OFF
US ARMY ELEMENT HDQS CENTRAL COMMAND	CURRENT OPNS BR	CIRCUIT ENGR
USA ELEMENT DEFENSE INFORMATION SERVICES ORGANIZATION	D314 SPACE BR	C-E ENGR OFF
USAE DISA JIEO D6	JTA WARFGT SPT DIV	JT C4I WSO
USAE DISA JIEO D6	JTEB NTWK & INTEGR BR	JT C4I INTEROP &
USAE DISA JIEO D6	JEBCA TADIL	JINTACCS INTEROP
USAE DISA JIEO D6	JECO CMD CTR ENGR & IN	NMCC ENGR MGR
USAE DISA JIEO D6	JEJG ENGR SPT DIV	JT C3 STAFF OFCR
USAE NORTH AMERICAN AEROSPACE DEFENSE COMMAND NORAD	(5311)PROGRAM MGMT BR	CMD & CTRL SYS OFF
USAE NORTH AMERICAN AEROSPACE DEFENSE COMMAND NORAD	(6110) C4 PROGRAMS BR	C4 SYS STAFF OFF
HHC, 11TH SIGNAL BRIGADE	SIG ENGINEERING BR	SYSTEMS ENGINEER
22D SIGNAL BDE HHC	SIGNAL ENGINEERING BR	SYSTEMS ENGINEER
1ST SIGNAL BDE HHC	SIG ENGINEERING BR	SYSTEMS ENGINEER
HHC 3D SIGNAL BRIGADE	SIGNAL ENGINEERING BR	SYSTEMS ENGINEER
7TH SIGNAL BDE HHC	SIG ENGINEERING BR	SYSTEMS ENGINEER
93D SIGNAL BRIGADE HHC	SIG ENGINEERING BR	SYSTEMS ENGINEER



FA24 Career Map



FA Qualifying

Developmental

	MEL4 and 24 Months in FA24 positions	48 Mo Cumulative Service in FA24	72 Months Cumulative Service in FA24
Systems Engineer C-E Engineer Telecomm Engineer Electrical Engineer Telecomm Systems Officer Networking Officer Systems Analyst/Engineer Instructor at TRADOC School/USMA	Systems Engineer C-E Systems Eng Chief, DCD ROTC/USMA Faculty and Staff Assistant TSM	Chief, SIO Chief, Systems Engineer AWC/NDU Faculty	Director/Deputy Director/ Chief at MACOM/DA/ DOD/JOINT/Multinational Level Staff



CAREER FIELD DESIGNATION (CFD)



What is the CFD Process?

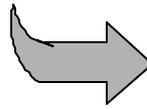


- | |
|---------------|
| 1 - SMITH |
| 2 - JONES |
| 3 - SHRIMPTON |
| 4 - JENKINS |
| 5 - LARSON |

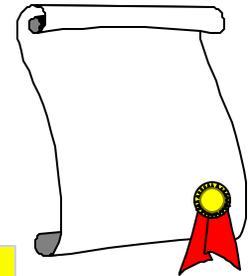
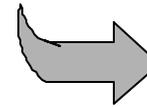
Major's Promotion List
Steady State



Officer Preference



CFD Board



Abilities
Education
Experience

It is a process that matches Officer Preference with Ability, Education and Experience with Army Requirements



CFD Board Designates
Career Field FA



Army Requirements by YG



Commanders Input
OER





CFD Board Results



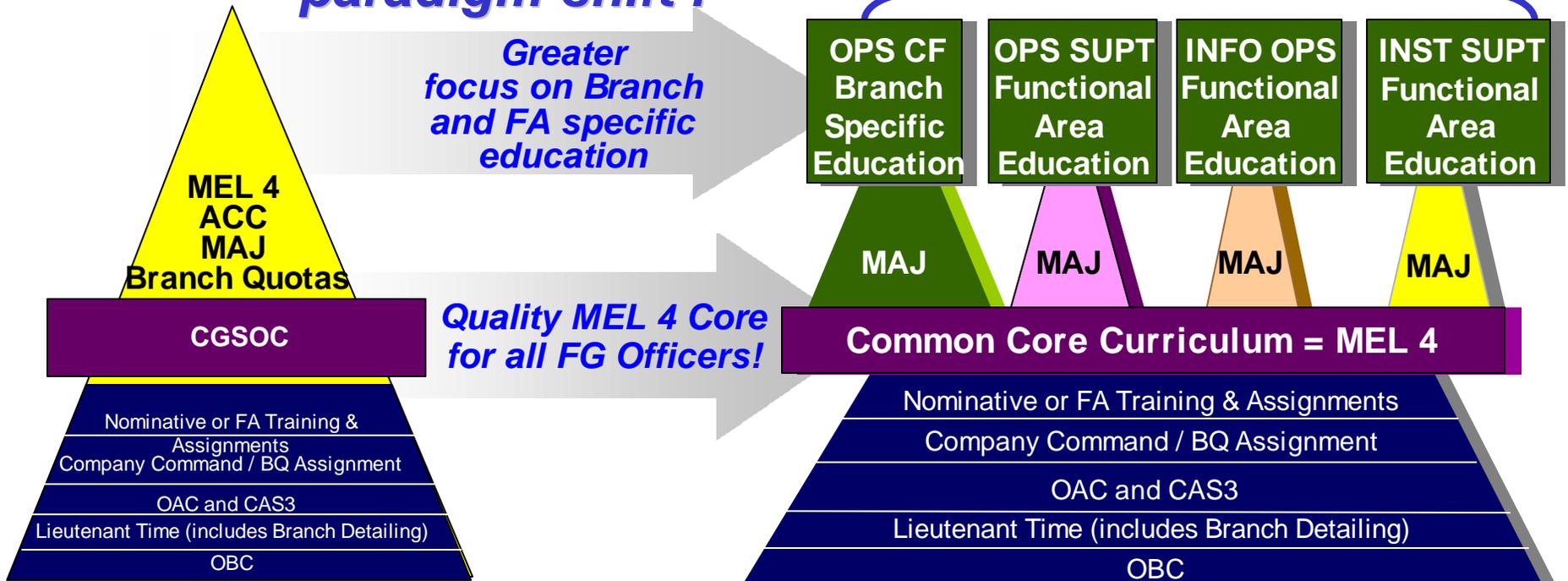
- **Designated 11,166 officers from nine year groups (YG 80, 81, 82, 83, 86, 87, 88, 89 and 90)**
 - 670 into Signal Branch (OPCF)
 - 91 into FA24 (IOCF)
 - 221 into FA53 (IOCF)
- **Every officer that requested to remain in branch did**
- **Competition is to get into the functional areas**
- **84% of all officers who submitted a preference received their first choice**
- **To date 91% of officers boarded have submitted their preferences over the Internet**



INTERMEDIATE LEVEL EDUCATION (ILE)

THE OPMIS XXI ILE Vision...

Deliberately bring about a paradigm shift! Future ILE...



CGSOC = MEL 4

Board selects 50% ACC for resident CGSOC
 Resident instruction = core and AAPs
 Non-resident = core only
 MEL 4 Core instruction provided through:
 Resident CGSOC
 TASS classroom
 Correspondence course

ILE = Core + CF/Br/FA Specific Education

Common core applicable for all (4-5 months)
 Specific education geared to Br/FA job requirements
 New opportunities for presenting the core curriculum
 Extended campus options
 Capitalize on DL and TASS modernization
 100% of FG officers receive education they need

ILE principle -- right education, right officer, right time...



Intermediate Level Education (ILE)



A Concept for Future ILE ...

**Common Operational Core Curriculum...
Multiple Opportunities...**

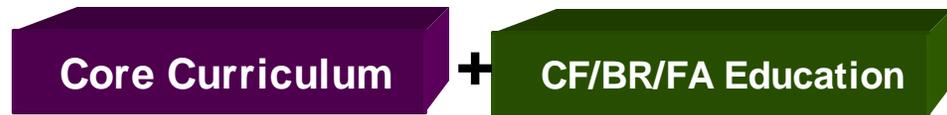
- Resident
- Distributed Classroom Core
- Correspondence Course Core
- Extended Campus Core



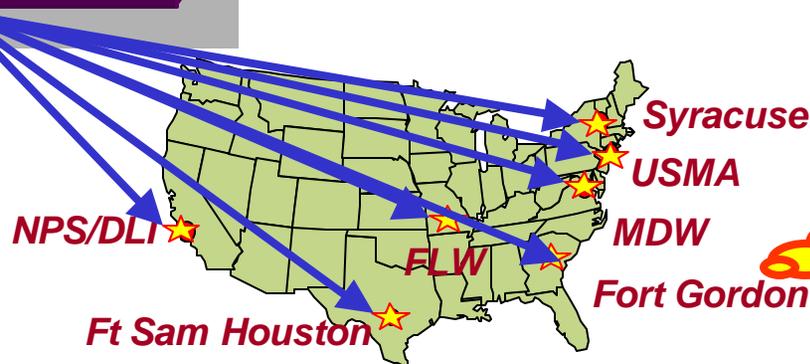
Or...



Or...



Different for each Branch and Functional Area...



SIGCEN considered for pilot in Oct 01

100 % receive common core instruction, specific education varies by CF, BR or FA...



Objective Signal Regiment Concept for Future ILE...



**Branch 25
Signal**

OPCF

CGSOC Core + **Advanced Operations Warfighting Course**

Resident at Ft Leavenworth

**FA53
Info Sys Mgt**

IOCF

CGSOC Core + **MS Degree-Mgt Info Sys (or related)**

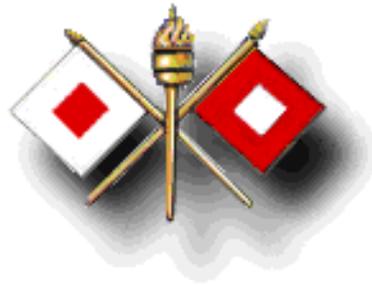
Resident at Ft Gordon

**FA24
Telecom Sys Eng**

CGSOC Core + **MS Degree-Telecomm (or related)**



FA24 Proponent Manager



MAJ JAKE PENNINGTON

COMM 706-791-8182

DSN 780-8182

penninjj@gordon.army.mil

<http://www.gordon.army.mil/ocos/FA24/24MAIN.HTM>