APPENDIX D

GCCS TRAINING COURSES

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JTO provides functional applications training for GCCS and Air Education and Training Command (AETC) provides GCCS technical training. The current courses offerings are described in this Appendix. The complete description, associated training materials, and schedule of JTO courses are also available for viewing and download from JTO's web page on the SIPRNET at *http://apps.jto.scott.af.smil.mil* or on the WWW at *http://ustcweb.safb.af.mil/J3/jto/a_hp.html*.

D.1 JTO Courses

D.1.1 JOPES Executive Course

- Description: A one hour presentation, usually given in conjunction with a JOPES Basic Operations Course, that presents an overview of the characteristics and capabilities of JOPES to senior military and civilian personnel. The course emphasizes current JOPES capabilities and provides insight into future improvements and systems. The presentation can be expanded to provide hands-on training.

- Prerequisites: Military—O-6 or above; Civilian—GS/GM-14 or above. The basic presentation is unclassified however, hands-on access in JOPES requires a Secret clearance.

D.1.2 JOPES Basic Operations Course

- Description: A five day course designed for personnel new to the joint planning and execution process. It provides general functional training and procedural information on how to conduct joint operation planning and execution using JOPES in the GCCS environment. The course provides an overview of the U.S. national security structure and joint planning. It follows a scenario allowing class attendees to role play at various levels within the JPEC in both deliberate and crisis action planning environments.

- Prerequisites: Military or civilian personnel assigned to the JPEC; satisfactory completion of the Joint Planning Orientation Course (JPOC). A Secret clearance is required. (Although a Secret clearance is required, access to facilities where the course is taught may require a Top Secret clearance.)

D.1.3 JOPES Speciality Course

- Description: A modularized course, up to six days in length, designed to provide functional knowledge of how to use the RDA, JFAST, LOGSAFE, FAPES, S&M, and AHQ applications in the GCCS environment.

- Prerequisites: Military or civilian personnel with a Secret clearance and satisfactory completion of the former JOPES User's Course and JOPES Migration Transition Course; or satisfactory completion of the JOPES Basic Operations Course. (Although a Secret clearance is required, access to facilities where the course is taught may require a Top Secret clearance.)

D.1.4 JOPES Functional Managers Course

- Description: A five day course that provides the functional manager the knowledge of JOPES procedures and the supporting ADP to effectively manage JOPES. This course addresses both GCCS and TS3. The course is designed to show the roles and responsibilities of management in the JOPES environment. The focus is on the required mechanics for administering functional database management activities at a local site and within the planning and execution community.

- Prerequisites: Military or civilian personnel with a Secret security clearance (Top Secret for those requiring the TS3 portion of the course) who are, or will be, performing JOPES functional management (or closely related) duties and have completed the five day JOPES Basic Operations Course.

D.1.5 Top Secret Support (TS3) Course

- Description: A five day course designed for personnel new to the Top Secret planning process. It provides general functional training and procedural information on how to conduct joint operation planning and execution using JOPES on the WWMCCS mainframe. The course provides a limited review of the U.S. national security structure and joint planning. It follows a scenario allowing class attendees to role play at various levels within the JPEC in both deliberate and crisis action planning environments.

- Prerequisites: Military or civilian personnel assigned to the JPEC; satisfactory completion of the JPOC. A Top Secret clearance is required.

D.1.6 JOPES Initial Operational Capability Course

- Description: A five day course designed to provide knowledgeable JPEC attendees with a functional understanding of emerging JOPES applications in preparation for GCCS IOC. The curriculum supports a one day review of RDA, a two day introduction to Joint Force Requirements Generator (JFRG), and an introduction to the new communications capabilities including Netscape, e-mail, and TLCF, and an introduction to Applix macros. The scope of this course is focused on the new or changed capabilities and functions of JOPES.

- Prerequisites: Military or civilian personnel with a Secret security clearance and satisfactory completion of the JOPES Basic Operations Course (after 1 November 1995). (Although a Secret clearance is required, access to facilities where the course is taught may require a Top Secret clearance.)

D.1.7 GTN Executive Course

- Description: A one-to-four hour course designed to provide senior executives an explanation of the GTN system. It includes the need for such a system and the concept, characteristics, capabilities, and expectations for the system. The course also includes and explanation of GTN data sources and key elements. It concludes with a hands-on demonstration of GTN capabilities to provide in-transit visibility of passengers and cargo moving through the Defense Transportation System. Depending on the audience, various queries are conducted and the

results are analyzed from the perspective of a senior executive command and control decision-maker.

- Prerequisites: Military —O-6 or above; Civilian—GS/GM-14 or above. (Although GTN is presently an unclassified system and does not require a security clearance, access to facilities where it is taught may require a Top Secret clearance.)

D.1.8 GTN Users Course

- Description: A four day course designed to provide a basic working knowledge of how to retrieve data using the GTN system software. The GTN system is on-line and used by USTRANSCOM, its components, and other commands for detailed common user air and surface movement visibility, and in transit visibility by shipment, stock number, unit, or passenger name.

- Prerequisite: Military or civilian personnel who are current or potential GTN users. (Although GTN is an unclassified system, access to facilities where it is taught may require a Top Secret clearance.)

D.1.9 GTN Functional Managers' Course

- Description: A one day course designed to provide local site GTN functional database managers with sufficient knowledgeable of GTN procedures, hardware, and software system components to help effectively manage the GTN system. The class consists primarily of hands-on instruction using the on-line GTN system.

- Prerequisites: Military or civilian personnel who are, or will be performing GTN functional database management duties and have completed the GTN Users' Course. (Although GTN is an unclassified system, access to facilities where it is taught may require a Top Secret clearance.)

D.2 AETC Courses

D.2.1 Oracle Database Administrator

- Description: Teaches the student the concepts and skills needed to administer an Oracle database system. Tasks include designing a small relational database; familiarity with terms and concepts; configure the operating system in preparation for the Oracle installation; install the Oracle RDBMS on the server; tune and modify memory structures; create tables, perform updates, deletes, startup and shutdown, backups and recoveries on the database; enroll/drop users, grant access, assign passwords, and system privileges.

- Prerequisites: Should be assigned Database Administrator (DBA) duties and have working knowledge of basic UNIX commands and the vi text editor, Standard Query Language (SQL), and relational database concepts.

- Facility/Classroom Requirements: One SPARC Server 20 or higher with at least one workstation per two students, a white board, an over head projector, an Intel-based 486 or higher with Power Point , a Magna Byte projector, and an Oracle7 CD.

D.2.2 GCCS Basic Administrator

- Description: Teaches the student the concepts and skills needed to administer Solaris 2.3 computer systems used in support of GCCS. Tasks include manipulating users and groups, adding devices to the system, halting and booting a system, mounting and maintaining file systems, backup and recovery, configuring the Network File System (NFS) environment, security tasks, and configuring the Network Information Service for Solaris (NIS+). Emphasizes the UNIX commands and procedures needed to perform these tasks.

- Prerequisites: Should be assigned system administrator duties and have working knowledge of basic UNIX commands and the vi text editor. UNIX prerequisites may be satisfied with Interactive Courseware (ICW).

- Facility/Classroom Requirements: SPARC 5s connected to a 1000 or 2000 with desktop software loaded.

NOTE: As of January 1996, the GCCS System Administrator Course will change its name to GCCS Basic Adminstrator. All prerequisites still apply.

D.2.3 GCCS GSORTS Familiarization

- Description: GSORTS serves as the graphical interface to the SORTS database. GSORTS provides the National Command Authorities and Joint Staff with authoritative indentification, location, and resource information on units of the U.S. Armed Forces. GSORTS supports staff and decision makers by providing the information needs for command and control of the U.S. military units in all operational environments. GSORTS supports peacetime monitoring, crisis reporting, and operational planning by staff officers. GSORTS displays SORTS data on Defense Mapping Agency maps.

- Prerequisites: GCCS User Introduction course or similar Windows experience.

- Facility/Classroom Requirements: GSORTS loaded and fully functional.

D.2.4 GCCS JMCIS Familiarization

- Description: JMCIS is an automated C^4I system with interfaces to a variety of military communications and computer systems. JMCIS is designed to meet the joint tactical picture and provide unique tactical situation assessment, data fusion, and display the needs of battle group and force commanders, subordinate warfare commanders, ship commanding officers, and shore-based command centers

- Prerequisites: GCCS User Introduction course or similar Windows experience.

- Facility/Classroom Requirements: JMCIS loaded and fully functional.

D.2.5 GCCS JDISS Familiarization

- Description: JDISS allows for connectivity and interoperability with the intelligence systems required to support forces in garrison and deployed in peacetime, crisis, and wartime. JDISS provides Joint Intelligence Center, Joint Task Forces, and operational commanders with on-site automation support and the connectivity necessary to execute the intelligence mission. JDISS provides automation support for:

  - Transmitting and receiving specific requests for intelligence.

  - Accessing Theater, Service, and National Intelligence databases supporting digitized imagery exchange.

  - Accessing automated record message processing systems, indications and warning systems, and collection management systems.

  - Inputting intelligence data into a variety of operations/intelligence systems.

  - Performing multi-media functions such as voice electronic publishing and video teleconferencing.

- Prerequisites: GCCS User Introduction course or similar Windows experience.

- Facility/Classroom Requirements: JDISS loaded and fully functional.

D.2.6 GCCS User Introduction

- Description: For all ranks, designed to provide familiarization training on office automation, e-mail, message handling, and various other desktop applications that make up the environment. The course includes an introduction to GCCS and an overview of the Technical Insertion Program (TIP) applications taught by the Joint Training Office (JTO), as well as other core software applications included in the Common Operating Environment (COE).

- Prerequisites: None, but Windows experience is helpful.

- Facility/Classroom Requirements: GCCS desktop loaded and fully functional.

D.2.7 GCCS UNIX

- Description: This is a user-level course introducing students to the UNIX operating system. The scope of training includes UNIX concepts (file system structure, commands, and commando); the text editors (vi and TextEditor); and creating Shell Scripts. This course is conducted in a hands-on environment. Instructors are capable of conducting the training on WIS workstations (A/UX) as well as the Sun platform (Solaris). Every effort is made to keep the curriculum as generic as possible.

- Prerequisites: Familiarization of the workstation on which the training is conducted.

- Facility/Classroom Requirements: WIS workstations, DOS-based machines with access to UNIX, or Sun workstations.

NOTE: This course is not available until January 1996.

D.2.8 GCCS Security Administrator

- Description: The course includes an overview; security threats and policies; physical and personnel security policies; adding, deleting, and modifying user accounts; establishing identities; adding and deleting profiles; managing file attributes; backup and recovery procedures; checking system integrity; performing auditing tasks; managing access to remote users; configuring and controlling Transmission Control Protocol (TCP); controlling NFS and NIS+ resources; identifying default users and passwords; identifying and establishing risk analysis procedures; and establishing security information files.

- Prerequisites: Should be assigned to security administrator duties, have working knowledge of UNIX commands and the vi text editor, and have completed the GCCS System Administrator course (9 days) or the new GCCS Basic Administrator course, which is available as of January 1996. Recommend completion of the GCCS Security Policy ICW course.

- Facility/Classroom Requirements: SPARC 5s connected to a 1000 or 2000 with desktop software loaded.

NOTE: This course is not available until January 1996.

D.2.9 GCCS System Administrator

- Description: The course includes an overview, concepts, responsibilities, background processes, security, startup and shutdown, database creation, space management, performance tuning, backup and recovery, utilities, and installation and configuration.

- Prerequisites: Should be assigned system administrator duties and have working knowledge of UNIX commands and the vi text editor. Should have completed the GCCS System Administrator course (9 days) or the new GCCS Basic Administrator course, which is available as of January 1996.

- Facility/Classroom Requirements: SPARC 5s connected to a 1000 or 2000 with desktop software loaded.

NOTE: This course is not available until January 1996.

D.2.10 SYBASE Database Administrator

- Description: The course includes overview of relational database concepts and design, introduction to SYBASE, SQL Server, creating databases and segments, database security,

backup and recovery, performance tuning, locking, auditing, system utilities, and administrator tasks.

- Prerequisites: Should be assigned to database administrator duties and have working knowledge of UNIX commands and the vi text editor, SQL, and relational database concepts.

- Facility/Classroom Requirements: One Sun machine running Solaris 2.3 with CD Rom capabilities to install SYBASE. This machine is needed to run as a server, and needs 200 mbyte total free disk space. At least one workstation per two students with network connectivity to the server, and an overhead projector.

D.2.11 GCCS AMHS Administrator

- Description: Provides training to GCCS System Administrators and AMHS Database Administrators necessary for AMHS start up and operation. Includes directory structure, hardware requirements, TOPIC software; configuration of AMHS specific files; and processes necessary to run a real-time AMHS.

- Prerequisites: Should be assigned to AMHS Database Administrator duties and have working knowledge of UNIX commands and the vi text editor.

- Facility/Classroom Requirements:

  - One Standard Automated Terminal (SAT) and Sun Server both with AMHS software installed and operating.

  - At least one workstation for every two students.

  - Owner permissions as amhs_dba on AMHS server to add, modify, and delete messages.

  - Access physically to SAT terminal to manually access autodin messages in reject queue and test system.

  - Root permissions to AMHS server and Exective Manager (EM) server to update plain language address tables in global data areas.

  - In general a training environment requires students be given access to the AMHS file system and other system files and have the ability to corrupt (delete) the AMHS database.

D.2.12 GCCS Oracle

- Description: This course provides a working knowledge of Oracle database software. The scope of training includes relational database fundamentals, data retrieval, and report generation using Oracle. The course is generic. Upon completing this course, students will be able to use Oracle on any computer containing the Oracle software.

- Prerequisites: Familiarization of the workstation on which the training is conducted.

- Facility/Classroom Requirements: One Sun SPARC 20 or higher with at least one workstation per two students, a white board and an overhead projector.

D.2.13 GCCS Network Administrator

- Description: This course provides advanced training in the knowledge and skills needed to perform the duties of a Network Manager. The scope of training includes concepts, configuration, and operation of a networked system. Principle studies and experiences include unified LAN architectural fundamentals, network setup (software only), network administration, and network diagnostics and recovery. This course will be available on or about January 1996.

- Prerequisites: Should be assigned to network manager or system administrator duties, have general knowledge of network concepts and theories, and completed a GCCS UNIX course and the GCCS System Administrator course (9 days) or the GCCS Basic Administrator course, which will be available in January 1996.

NOTE: The validity of this course is being researched and the information will be presented to the Training Panel voting members at the the Spring 1996 Training Planning Team meeting. If the voting members elect to have this course developed and taught by AETC; the course will require development.