

JOINT COMMAND, CONTROL, COMMUNICATIONS, AND COMPUTERS PLANNERS COURSE (JC4PC)

SYLLABUS



**JC4PC
INSTRUCTOR OFFICE
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**JOINT COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS
PLANNERS COURSE (JC4PC)**

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FOREWORD

The **mission** of the Joint Command, Control, Communications and Computers Planners Course (JC4PC) is to educate C4 Planners in Doctrinal C4 concepts in the Joint, Interagency, and Coalition environments. While other communications training programs focus on Service specific requirements, the Joint C4 Planners Course fills a capability gap by preparing mid-grade C4 Planners for the technical requirements of planning Joint net-centric operations. The course focuses on the technical aspects of Joint C4 planning associated with Strategic, Theater and Tactical level systems within the contingency and crisis action planning (CAP) processes.

The JC4PC is a Joint-certified training course located at the United States Army Cyber Center of Excellence, Fort Gordon, Georgia. The Joint Chief of Staff J6 performs Operational Responsibility (OPR), the J6 approves the JC4PC POI and the J7 validates and certifies the course. As the host of the course, the US Army Cyber Center of Excellence provides administrative and logistics support to the course. The course is fully registered in the Army Training Requirements and Resources System (ATTRS) as well as the other Services' training registration systems. The Joint C4 Planners Course (JC4PC) is a four-week operational level course designed to educate C4 Planners in Doctrinal C4 concepts in the Joint, Interagency, and Coalition environments.

JC4PC's major subject areas include: Roles and Responsibilities within a JTF, Service and Coalition Briefs, Contingency and Crisis Action Planning, Transmission Systems, Multiplexing Systems / Convergence Routing, Data Systems, Voice Systems and Special Interest Circuits. Student learning is achieved by course instruction, class research, presentations, communications briefs, and active participation in a capstone practical exercise as an element of a JTF J6 staff.

The *Joint Command, Control, Communications and Computers Planners Course (JC4PC) Syllabus*, is a source document that describes the Joint Command, Control, Communications and Computers Planners Course (JC4PC). This syllabus contains three chapters:

Chapter I—Executive Summary

Chapter II—JC4PC Curriculum Description

Chapter III—JC4PC Course Descriptions

The curriculum described in this syllabus is based on a student-centered approach to education. All modules and lessons in the Joint Command, Control, Communications and Computers Planners Course have specific learning objectives. These objectives are general statements that encompass a class of behavior and specify student-learning outcomes which the teaching-learning process should achieve. The majority of the learning objectives are based on the **cognitive** (intellectual or “thinking”) domain of learning. The learning objectives include specific behavioral verbs denoting the level of student learning to be achieved. Individual lessons include “samples of behavior” specifying observable behavior students should be able to demonstrate at the end of a lesson, module, etc., to provide evidence the learning objectives have been achieved.

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CHAPTER I
EXECUTIVE SUMMARY
JOINT COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS
PLANNERS COURSE (JC4PC)

1. COURSE PURPOSE AND SCOPE

a. This four-week course is designed to provide skills and knowledge necessary to plan, and engineer the network of a Joint tactical network within a Joint Task Force (JTF). Students are taught the skills necessary to engineer and plan complex Joint communications systems networks in support of Joint operations. The course will focus on the technical aspects of communications system's planning. The Joint C4 Planners Course will provide students with the skills required for the best operational support in the Joint communications environment. The course accomplishes this through a variety of active learning methods involving seminar discussions, lectures, student-lead lesson presentations, guest lectures, case studies, and practical exercises. Specifically, the course focuses on the following learning areas: (1) Joint System Planner, (2) Joint Transmission, (3) Joint Multiplexing / Convergence Routing, (4) Joint Data, (5) Joint Voice Switching, and (6) Capstone Exercises.

b. Train students how to plan the integration of diverse types of automation and communication systems into an interoperable information exchange network which support Joint and Coalition tactical operations. Students learn how to collaborate the planning of communication networks using doctrinal techniques to meet the JTF battlefield user requirements. The course places emphasis on practical application of a developed JOPP compliant communications mission which requires the use of existing military and commercial solutions to meet the mission objectives. The course uses the CJCSM 6231 Series (Manual for Employing Joint Tactical Communications) and all current Joint technical and doctrinal references.

c. The course lessons are divided into modules of instruction, with each module having a common theme. The lessons are a mixture of informal faculty lectures, guest speaker presentations, case studies, and field trips. Guest speakers from all areas of the communications systems community support the faculty. These subject-matter-experts contribute by providing expertise not available on the staff. There are also site visits to local area communications systems facilities reinforcing classroom instruction of communications systems operations. The course includes 160 contact hours of instruction broken into 47 individual lessons.

d. This course is envisioned to be a prerequisite for Active Duty, DoD and Reserve Component personnel assigned or on orders to a specified Joint Billet. Army, Air Force, Navy, Marine Corps may attend this course and Coalition personnel may attend this course if they fall into the FD2 criteria. A Secret security clearance is required.

2. FACULTY ORGANIZATION

a. The course is the responsibility of the Joint Chief of Staff J6/J7 for course curriculum and certifying the JC4PC. As the host of the course, the US Army Cyber Center of Excellence provides administrative and logistics support to the course through the 442d Signal Battalion.

b. The academic chain of command consists of the Deputy Course Director and the Course Director for all final academic decisions.

c. The class will have an instructor from the JC4PC assigned as an ACE. Students are encouraged to seek guidance when necessary. The ACE is available for consultation regarding both academic and personal problems.

3. CLASSROOM ATTENDANCE

a. Students will attend all scheduled classes as directed by the training schedule or other directives.

b. Class leaders may approve a routine absence of one period only after discussing it with the Course Director. The Course Director is the only person that may approve standard 4-period absences for routine activities. Any and all absences exceeding one class day must be approved by Course Director. Students wishing to miss class time to leave the Augusta area must obtain approval from the Course Director JC4PC. Passes are required for all travel in excess of 100 miles from the Augusta area.

c. Class leaders will keep absences from classes to a minimum and will keep the Course Director informed of any and all absences before work call or by COB at the latest each day.

4. UNIFORMS

a. Student uniform will be Service Duty Uniform unless otherwise specified. Class leaders will ensure that students are in proper uniforms and will take appropriate action where discrepancies in uniform and personal appearance are noted. Repeated problems will be referred to the Deputy Course Director/Course Director for resolution.

5. **SEXUAL HARASSMENT:** Students involved in any forms of SEXUAL HARASSMENT will be dealt with under existing DoD, Fort Gordon and/or specific services Policies and Regulations.

6. PREPARATION / STUDY REQUIREMENTS

a. Blocks require both individual work and small group products; individual and group products are evaluated by faculty. The majority of the products are completed in-class; however, most lessons require out of class reading / homework, preparation, and study. Students are required to complete reading and study outside the classroom in order to complete classroom requirements in the time allotted.

7. **ACADEMIC COUNSELING:** Academic counseling serves a dual purpose. It is used to determine the reason(s) students are having academic problems and to provide the student with assistance to overcome these difficulties. DA Form 4856 will be used to record all counseling sessions.

(1) Students failing to meet any course requirements for the first time will be formally counseled by the Course Director.

(2) Students failing to meet course requirements a second time will be formally counseled by the Course Director JC4PC.

(3) Students failing to meet course requirements a third time will be counseled by the Course Director who may refer the student to the 442nd Bn. CDR for possible course elimination.

8. **MAINTENANCE OF THE CLASSROOM**

a. Cleanliness of the classroom is a shared responsibility. However, it is the ultimate responsibility of the class leader. Clean all desk tops and police up all loose paper at the end of each day. At the end of each day all chairs will be neatly placed in their proper positions. The coffee break area will also be cleaned at the end of each day. Floors will be swept each day.

b. The Class leader will ensure that lights are off and the classroom doors are secured at the conclusion of the class.

c. Trash will be emptied at the end of every class day.

d. Classroom floor will be clean at the end of each day.

9. **STUDENT EVALUATION / GRADING**

a. JC4PC does not have a Distinguished Graduate program because the desired outcome is teamwork, not competition. Students are evaluated on their contribution to their team's assignments, their individual quiz assignment, their contribution during the practical exercise, and their daily contributions to the class's education.

b. Each student is expected to positively contribute to the learning in the classroom on a daily basis. Students working in groups will collectively receive a pass or fail for the group activities. The group activities are evaluated against the learning objectives of each lesson. Each group is evaluated on the analysis of the course material, presentation of their answers, and discussions that occur during the presentation. In presenting the group's products, all students take turns presenting their group's results. Students are evaluated on their overall effectiveness in presenting the material and leading discussions during their presentation.

c. In addition to the group evaluations, students take a quiz with true/false statements, and multiple choice answers. The individual examinations test students' understanding of the basic concepts on day one and also at the end of the course. The quizzes are designed to take 1-2 hours to complete, and is Pass/Fail.

10. **GENERAL INSTRUCTIONS**

a. Training schedules are subject to short notice change.

b. Students may be used to complement the instructional staff. All students are urged to actively participate in classroom discussions.

c. Students are encouraged to use student comment sheets to provide timely, CONSTRUCTIVE, critiques on instruction and subject quality. Critiques will be forwarded from the class leader to the ACE.

d. A class leader will normally be selected on the basis of seniority. The class leader plays a key role within the student leadership structure. He or she acts as the spokesperson for the class and is responsible for effecting close coordination between the students and faculty.

e. The class leader will present an EOC (end of course) evaluation to the Joint Chiefs of Staff J6. The evaluation should include constructive comments and recommendations concerning post services and facilities, the Program of Instruction (POI), and overall conduct of the course. A written copy of the evaluation, in outline form, will be provided to the Course Director.

f. Open Door Policy: The 442nd Bn. CDR and JC4PC Course Director have open door policies. Students should first attempt to solve a problem utilizing assistance from their Class Leader or ACE. If these personnel cannot provide the desired help, the problem should be presented to the Course Director. When the Course Director cannot resolve the problem, the student will be referred to the 442nd Bn. CDR.

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CHAPTER II
JC4PC CURRICULUM DESCRIPTION
JOINT COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS
PLANNERS COURSE (JC4PC)

1. **COURSE GOALS:**

a. To provide mid-level communication planners with the training and technical skills to plan interoperable joint, multinational, and interagency communications networks in support of the joint warfighter and mission partners. Significantly improve personnel's ability to plan a secure efficient communications networks in support of a JTF/CJTF. Provide exposure to other Services personnel, procedures and experience. Provide a common base for network procedures and standardization.

2. **JC4PC LEARNING OBJECTIVES:**

a. COMPREHEND the doctrinal C4 concepts of Joint, Interagency and Coalition environments which culminate in the development of Annex K planning documents necessary for a joint communications network.

b. COMPREHEND the planning and design of Joint communication networks required to support deployed JTFs and service components.

c. APPLY/COMPREHEND the coordination and interoperability of diverse U.S. military, Non-Government Organization and Coalition communication systems supporting Joint and/or combined operations, producing a Capstone brief at the operational and tactical level.

3. **JC4PC CURRICULUM SUMMARY:**

a. The Joint C4 Planners Course's mission is to educate company and field grade officers, warrant officers, senior NCOs, and DoD equivalent civilians in: Doctrinal C4 concepts in the Joint, Interagency, and Coalition environments. The curriculum is organized into eight modules. These modules build on each other, progressively providing more complex material, ultimately requiring synthesis of planning products during Module B through Module F and Module H. JC4PC's core competencies include Roles and Responsibilities within a JTF/CJTF, Service and Coalition Briefs, Deliberate and Crisis Action Planning, Transmission Systems, Multiplexing Systems / Convergence Routing, Data Systems, Voice Switching Systems and Special Interest Circuits. Student learning is achieved by course instruction, class research, presentations, communications briefs, and active participation in a capstone practical exercise as an element of a JTF/CJTF J6. The course involves 160 contact hours of instruction broken into 47 individual lessons. An overview of the modules is provided below, and a detailed description of individual lessons is contained in chapter three.

4. **MODULE OVERVIEWS:**

a. MODULE A: ADMINISTRATION

The module focuses on introducing the student to the course, processing all required documentation for training and covering all administration functions for the course. To ensure that, student computer support and network access to required data services are established. A brief introduction from each student is given to familiarize staff and students to each other. A tour is given of the main training facilities that will be used for the duration of the course.

b. MODULE B: JOINT SYSTEM PLANNER

The module introduces the responsibilities of a JTF Planner along with other various planning considerations and requirements to fulfill the process of Joint Planning, in accordance with the Annex K of the OPOD, DoD directives and Joint Publications. Students must understand host nation requirements within the spectrum range. Joint Standards are introduced to assist in the understanding of the many different ways symbology and standards can be utilized within the confines of the different network designs. Students will also be briefed on the Mission Partner Environment (MPE) which is a forum for Multinational Information Sharing via a DISA Common Mission Network Transport.

c. MODULE C: JOINT TRANSMISSION

The module introduces planning considerations, transmission mediums, satellite constellation systems and the characteristics/capabilities of various types of transmission terminals required to meet the needs of a JTF Commander, in accordance with the Annex K of the OPOD, DoD directives and Joint Publications. Planning single channel radio networks are introduced to assist in the understanding of the various radios and frequency ranges which can be utilized within the confines of the different network designs. Comprehension of this module will be demonstrated by the planning and designing of a Joint Communications Transmission Network produced upon a scenario-based environment.

d. MODULE D: JOINT MULTIPLEXING/ CONVERGENCE ROUTING

The module introduces the terminology and capabilities of the multiplexing equipment widely used throughout the joint arena that support integrated networks to meet the needs of the JTF Commander, in accordance with the Annex K of the OPOD, DoD directives and Joint Publications. Comprehension of this module will be demonstrated by the planning and designing of a Joint Communications Multiplexing / Convergence Routing Network produced upon a scenario-based environment.

e. MODULE E: JOINT DATA

The module introduces planning considerations, data services and equipment used to plan a Joint Forces Data Network in accordance with pertinent public laws, Annex K of the OPOD, DoD directives and Joint Publications. IP Addressing using Sub-netting and VLSM techniques are discussed and exercises are used to maximize the ability to completely understand the importance of IP Addressing while planning and managing a network. Comprehension of this module will be demonstrated by the planning and designing of Joint Communications Data Networks produced upon a scenario-based environment. Cyber Security and the newly introduced Risk Management Framework will be taken into consideration when designing a Joint Data Network.

f. MODULE F: JOINT VOICE SWITCHING

The module introduces planning considerations, Voice Switching Equipment and DRSN/DSN Networks widely used throughout the joint arena that support an integrated network to meet the needs of the JTF Commander, in accordance with the Annex K of the OPORD, DoD directives and Joint Publications. Planning a Joint VOIP Network is introduced to assist in understanding the ways it can be utilized within the confines of the different network designs. Comprehension of this module will be demonstrated by the planning and designing of a Joint Communications Voice Switching Network produced upon a scenario-based environment.

g. MODULE G: GUEST INSTRUCTORS

The module navigates the different documents and management tools available to the planner and discusses Joint Tactical Network. Also discussed are the perspectives of the U.S. Services, Coalition Services and Combatant Commands to provide an understanding of what each service provides towards a Joint Communications Network. On-site tours provide the planners a chance to see active equipment and operations to better understand the end results of what proper planning and preparation can do to assist in the management of a network.

h. MODULE H: CAPSTONE EXERCISE

The module introduces the running scenario which is used initially. The final capstone evaluation, a scenario based environment, will result in the planning, designing and briefing of a Joint Communication Network to meet the needs of the JTF Commander, IAW the Annex K of the OPORD, DoD directives and Joint Publications and finally how Annex C specifically (Cyber) is integrated throughout the process.

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CHAPTER III
JC4PC COURSE DESCRIPTIONS
JOINT COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS
PLANNERS COURSE (JC4PC)

1. **GENERAL**

- a. Lessons/Sessions: 47
- b. Course Type: Core
- c. Course Title: Joint Command, Control, Communications, Computers Planners Course (JC4PC)
- d. Course Hours: 160

2. **COURSE OBJECTIVES**

The academic objectives provide the foundation for the JC4PC:

- a. COMPREHEND the doctrinal C4 concepts of Joint, Interagency and Coalition environments which culminate in the development of Annex K planning documents necessary for a joint communications network.
- b. COMPREHEND the planning and design of Joint communication networks required to support deployed JTFs and service components.
- c. APPLY/COMPREHEND the coordination and interoperability of diverse U.S. military, Non-Government Organization and Coalition communication systems supporting Joint and/or combined operations, producing a Capstone brief at the operational and tactical level.

3. **JC4PC CURRICULUM SUMMARY**

The Joint C4 Planners Course's mission is to educate company and field grade officers, warrant officers, senior NCOs, and DoD equivalent civilians in: Doctrinal C4 concepts in the Joint, Interagency, and Coalition environments. The curriculum is organized into eight modules. These modules build on each other, progressively providing more complex material, ultimately requiring synthesis of planning products during Module B through Module F and Module H. JC4PC's core competencies include Roles and Responsibilities within a JTF, Service and Coalition Briefs, Deliberate and Crisis Action Planning, Transmission Systems, Multiplexing Systems / Convergence Routing, Data Systems, Voice Switching Systems and Special Interest Circuits. Student learning is achieved by course instruction, class research, presentations, communications briefs, and active participation in a capstone practical exercise as an element of a JTF/CJTF J6. The course involves 160 contact hours of instruction broken into 47 individual lessons. An overview of the modules is provided below, and a detailed description of individual lessons is contained in chapter three.

4. COURSE METHOD

a. The course lessons are divided into modules of instruction, with each module having a common theme. The lessons are a mixture of informal faculty lectures, guest speaker presentations, case studies, and site visits. The informal faculty lectures encourage student participation through open discussion, question-and-answer sessions, and review questions. Guest speakers from all areas of the communications systems community support the faculty. These subject-matter-experts contribute by providing expertise not available on the staff. There are also field trips to local area communications systems facilities reinforcing classroom instruction of communications systems operations. Students prepare for the Capstone Exercise per instructions contained in individual lesson guides. The course includes 160 contact hours of instruction broken into 47 individual lessons.

5. COURSE CONTENT

a. The course content comprises 47 separate and fully developed lessons which include formal lectures from resident faculty or guest speakers and interactive group exercises.

MODULES AND LESSONS

<u>MODULE</u>	<u>LESSON ID</u>	<u>CLASS TITLE / LEARNING STEP</u>	<u>LESSON / INSTR HRS</u>
A01	JCS07A01	IN PROCESS	1.5
		DOCUMENT IN PROCESSING	1.5
A02	JCS07A02	OUT PROCESS	1.0
		DOCUMENT OUT PROCESSING	4.0
A03	JCS07A03	CLASS ORIENTATION	0.5
		INTRODUCTIONS/AREA INFORMATION	0.5
<i>A01-03 TOTAL HOURS</i>			<i>3.0</i>
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B01	JCS07B01	JOINT SYSTEMS PLANNER	11.5
		ROLES AND RESPONSIBILITIES WITHIN THE J6/JNCC	1.5
		JOINT OPERATIONAL PLANNING PROCESS (JOPP)	1.0
		SPECTRUM MANAGEMENT	2.0
		INTRODUCTION TO JOINT SYMBOLOGY	0.5
		INTRODUCTION TO JOINT SLD / TRK ID / CCSD	0.5
		JOINT DOCTRINE	1.0
		INTRO TO VISIO	1.0
		ANNEX K	1.0
		COURSE EVALUATION	2.0
		MISSION PARTNER ENVIRONMENT (MPE)	1.0
B02	JCS07B02	MODULE B PRACTICAL EXERCISE	3.0
<i>B01-02 TOTAL HOURS</i>			<i>14.5</i>

C01	JCS07C01	JOINT TRANSMISSION	8.0
		PLAN A JOINT TRANSMISSION NETWORK	2.0
		TRANSMISSION EQUIPMENT	4.0
		INTRODUCTION TO GBS	0.5
		NAVAL COMMUNICATIONS	1.5
C02	JCS07C02	INTRODUCTION TO SINGLE CHANNEL RADIO	1.0
		INTRODUCTION TO SINGLE CHANNEL RADIO	1.0
C03	JCS07C03	MODULE C PRACTICAL EXERCISE	1.5
<i>C01-03 TOTAL HOURS</i>			<i>10.5</i>

D01	JCS07D01	JOINT MULTIPLEXING	5.0
		INTRODUCTION TO COMSEC ENCRYPTION PRODUCTS	1.0
		PLAN A JOINT MULTIPLEXING/CONVERGENCE NETWORK	1.0
		MULTIPLEXING EQUIPMENT	2.0
		CONVERGENCE / CONVERGENCE ROUTING	1.0
D02	JCS07D02	MODULE D PRACTICAL EXERCISE	1.0
<i>D01-02 TOTAL HOURS</i>			<i>6.0</i>

E01	JCS07E01	JOINT DATA	11.0
		PLAN A JOINT DATA NETWORK	2.0
		DATA NETWORK CAPABILITIES	2.0
		INTRODUCTION TO JWICS	1.0
		INTRODUCTION TO SUBNETTING	4.0
		RISK MANAGEMENT FRAMEWORK CYBER SECURITY	2.0
E02	JCS07E02	MODULE E PRACTICAL EXERCISE	1.0
<i>E01-02 TOTAL HOURS</i>			<i>12.0</i>

F01	JCS07F01	JOINT VOICE SWITCHING	3.0
		PLAN A JOINT VOICE SWITCHING NETWORK	1.0
		VOICE SWITCHING EQUIPMENT	1.0
		INTRODUCTION TO DRSN	1.0
F02	JCS07F02	INTRODUCTION TO VOIP	2.0
		INTRODUCTION TO VOIP	2.0
<i>F01-02 TOTAL HOURS</i>			<i>5.0</i>

G01	JCS07G01	INTRODUCTION TO C4 K-GEN SAR/GAR TOOL	2.0	
		JOINT SAR/GAR TOOL		2.0
G02	JCS07G02	RISK MANAGEMENT FRAMEWORK/APAN	3.0	
		RISKS MANAGEMENT FRAMEWORK (CBT)	2.0	
		ALL PARTNERS ACCESS NETWORK		1.0
G03	JCS07G03	US SERVICE PERSPECTIVE	5.0	
		US SERVICE PERSPECTIVE		5.0
G04	JCS07G04	COALITION SERVICE PERSPECTIVE	2.0	
		COALITION SERVICE PERSPECTIVE		2.0
G05	JCS07G05	COMBATANT COMMAND PERSPECTIVE	6.0	
		COMBATANT COMMAND PERSPECTIVE		6.0
G06	JCS07G06	JCSE BRIEF	1.0	
		JCSE BRIEF		1.0
G07	JCS07G07	ON SITE TOUR	6.0	
		VINCENT HALL (TRANSMISSION)		3.0
		R-CERT (IA/SECURITY)		2.0
		BRANT HALL (WIN-T)		1.0
G08	JCS07G08	NORTHCOM	8.0	
		NORTHCOM PLANNING		8.0
G09	JCS07G09	JOINT INTEROPERABILITY TEST COMMAND (JITC)	1.0	
		JITC BRIEF		1.0

G01-09 TOTAL HOURS **34.0**

H01	JCS07H01	SCENARIO BASED MODULE REVIEW	44.0	
H02	JCS07H02	CAPSTONE PRACTICAL EXERCISE	28.0	
H03	JCS07H03	INITIAL ASSESSMENT TEST	1.5	
H04	JCS07H04	FINAL ASSESSMENT TEST	1.5	

H01-04 TOTAL HOURS **75.0**

JC4PC TOTAL HOURS 160.0

***NOTE:** ONLY (6) SIX COCOM AND (2) TWO COALITION SERVICE BRIEFS WILL BE SLOTTED IN CLASS TO ENSURE 160 TOTAL HOURS. MORE MAY BE USED TO MAINTAIN TOTAL HOURS IF OTHER BRIEFS ARE NOT AVAILABLE FOR A PARTICULAR CLASS.

Westley J. Woodward
Course Director, JC4PC