



CHAIRMAN OF THE JOINT CHIEFS OF STAFF INSTRUCTION

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J-6

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MANAGEMENT OF JOINT NET-CENTRIC OPERATIONS (JNO) COMMAND, CONTROL, COMMUNICATIONS AND COMPUTER (C4) EDUCATION AND TRAINING PROGRAMS

References: See Enclosure C.

1. Purpose. To publish policy for the management of JNO C4 education and training programs. The Chairman of the Joint Chiefs of Staff authority is derived from title 10, USC, section 153(a)(5)(C).
2. Cancellation. MJCS 77-83, 8 November 1983, "Management of Joint Command, Control, and Communications Education and Training Programs," and MJCS 83-78, 23 March 1978, "Joint Command, Control, and Communications Staff and Operations Course" are cancelled.
3. Applicability. This instruction applies to the Joint Staff, combatant commands, Services, Defense agencies, National Defense University (NDU), Naval Post Graduate School (NPS), and the U.S. Army Signal Center and School, Fort Gordon, GA.
4. Policy. See Enclosure A.
5. Definitions. See Glossary.
6. Responsibilities. See Enclosure B.
7. Summary of Changes. This instruction updates and institutionalizes policy, procedures, and guidance for joint C4 training and education management previously published in references b and c, and provides an additional level of detail to reference g.
8. Releasability. This instruction is approved for public release; distribution is

unlimited. DOD components (to include the combatant commands), other federal agencies, and the public may obtain copies of this instruction through the Internet from the CJCS Directives Home Page--
http://www.dtic.mil/cjcs_directives.

9. Effective Date. This instruction is effective upon receipt.



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Vice Director, Joint Staff

Enclosures:

- A - Policy and Management
- B - Resources, Administration, Reporting
- C - References
- GL - Glossary

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ENCLOSURE A

POLICY AND MANAGEMENT

1. Background. Command and control (C2) of joint and multinational operations in a net-centric environment relies on the capability of the joint information system. The Global Information Grid (GIG) is the joint force commander's principal tool to collect, transport, process, protect, and disseminate information. In addition to materiel solutions, providing information assurance to the joint force also requires the coordination of common processes, standards and protocols. Increases in combat capability afforded by GIG JNO and enterprise services are delivered through effective planning, employment, and defense by C4 professionals. Management of joint C4 education and training programs is necessary to ensure that C4 professionals receive training that supports joint force objectives.

2. Policy. This directive augments reference g by providing additional guidance and direction for JNO C4 education and training management. The guidance in this document applies to functional JNO C4 education and training. Professional Military Education and joint training policy are found in references e, g, and k.

a. JNO C4 training and education curriculums will be driven by net-centric principles, be based on relevant joint doctrine, and conform with approved joint concepts.

b. JNO C4 training and education programs will be structured to professionalize and expand the knowledge of operationally oriented C4 personnel in planning and providing information assurance in joint and multinational operations.

c. JNO C4 training will emphasize current joint C4 priorities based on the final reports of the Joint Staff/J-6-led biennial curriculum reviews or interim guidance published by the Military Communications-Electronics Board (MCEB).

d. Joint C4 education programs will use joint C4 priorities and guidance published in the final reports of the Joint Staff/J-6-led biennial curriculum reviews to create a foundation for graduates to think within the context of C4 and take decisive action in future assignments.

e. Distributed Learning Content for JNO C4 Education and Training Programs. Joint C4 distributed learning content for the training and education programs under the purview of this instruction will comply with DOD network data strategies, be managed using net-centric principles, and be indexed and advertised to promote visibility to the joint community.

3. Joint C4 Education Program. Joint Command, Control, Communications, Computer and Intelligence (C4I) Systems Masters Program Naval Post Graduate School (NPS), Monterey, CA. The Joint C4I curriculum is designed to meet broad educational objectives endorsed by the Joint Chiefs of Staff. The overall objective is to provide officers and DOD civilian equivalents, through graduate education, with a comprehensive understanding of the field of C4I systems as applied to joint and combined military operations. The program is designed with the following goals: enable individuals to develop an understanding of the C4I enterprise in the application of military power and the ability to interpret the impact of C4I on an operating philosophy; develop adequate background knowledge in basic C4I technology, human capabilities, and joint and coalition military operations; evaluate and apply these elements to create mission effects; and provide the framework whereby graduates can identify requirements and conduct analysis of current and emerging C4I systems. The requirements for a Master of Science degree are met through the specified educational skill requirements of the curricular program.

4. Joint C4 Training Programs

a. The Joint Command, Control, Communications, Computers, and Intelligence Staff and Operations Course (JC4ISOC). The JC4ISOC will be hosted at the Joint Forces Staff College (JFSC), Norfolk, Virginia. The JC4ISOC provides students with a broad understanding of joint C4I doctrine and current policy guidance. The program requires the application of joint C4I concepts and skills/procedures to prepare the student for duty in joint or service C4I staff operations and planning assignments. This course provides a broad overview of Service C4 capabilities and trains students from varied functional backgrounds to function in a joint environment. Emphasis is balanced between the operational procedures associated with the C2 process and the management and operation of current joint C4I systems. The program covers the wide spectrum of C4I that extends from the national and strategic levels to the theater and tactical levels in support of the President, Secretary of Defense, and commanders who control military forces. The JC4ISOC is for individuals from the defense establishment who are or will be assigned to positions requiring an understanding of C4I. The course meets its objectives by providing a broad understanding of the joint C4I environment, reducing the time required for the officers, warrant officers, senior noncommissioned officers, or DOD civilians to be effective in their jobs.

b. Joint Command, Control, Communications and Computer (C4) Planners Course (JC4PC). The JC4PC will be hosted at the U.S. Army Signal Center and Fort Gordon (USASC&FG), Fort Gordon, Georgia. The JC4PC focuses on the technical aspects of C4 planning within the crisis action planning process in a joint task force J-6 (communications) staff. The JC4PC maximizes use of standard joint C4 planning tools to prepare students to plan operations in the joint environment within a joint task force J-6. Instruction will ensure students have a strong foundation in joint C4 fundamentals and will culminate with the development of the required Joint Operation Planning and Execution System (JOPEs) documents (Annex K, Architectural Diagrams) and other critical C4 planning documents (COMSEC Callout, Joint Restricted Frequency List, Satellite Access Request/Gateway Access Request) necessary to plan a joint communications network. In a hands-on, scenario-based environment, students are taught to plan and manage the integration and interconnection of diverse types of joint and allied automation and communications systems into interoperable local area and long haul information networks supporting tactical joint and combined operations. Students learn techniques to determine the overall network architecture to support battlefield user requirements, exercise network control, and conduct recurring network analysis. Emphasis is placed on the practical application of systems engineering principles to plan and manage communication/information networks using fielded and future military and commercial off-the-shelf systems.

5. Management Structure. The Joint Staff/J-6 will chair and assure that biennial curriculum reviews are conducted by a committee consisting of appropriate representatives from the Joint Staff, Services, combatant commands, and Defense agencies. Additionally, representatives from the Assistant Secretary of Defense (Networks and Information Integration) (ASD (NII)), and NDU will be invited to participate. The final report will be submitted to the MCEB for ratification for each joint net-centric C4 system education and training course reviewed. The purpose of the joint C4 curriculum review is to provide a forum to assist the course faculty and school administration with their mission; validate course requirements to ensure the course is relevant and in accordance with joint doctrine, emerging priorities, combatant command needs and CJCS priorities; and expose gaps and achieve balance in overall joint C4 training and education.

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ENCLOSURE B

RESOURCES, ADMINISTRATION, REPORTING

1. Office of the Secretary of Defense. In accordance with reference d, the Secretary of Defense funds professional development education operations of all components of the NDU, including the JFSC.
2. Chairman of the Joint Chiefs of Staff. In accordance with reference a, the Chairman is responsible for formulating policies for coordinating the military education and training of members of the armed forces.
3. Joint Staff. Assisting the Chairman, the Joint Staff is responsible for the following:¹
 - a. Assist combatant commands with review and coding of joint billets to be filled by joint C4 education and training program graduates. (Joint Staff/J-1/J-6)
 - b. Function in an oversight capacity to ensure the joint C4 education and training goals set by the Chairman are accomplished. (Joint Staff/J-6 lead/J-2, J-7 support)
 - c. Monitor all joint C4 education and training programs to ensure they are consistent with current and evolving joint doctrine, procedures, and objectives. (Joint Staff/J-6 lead/J-2, J-7 support)
 - d. Ensure that biennial curriculum reviews are conducted for the JC4ISOC, JC4PC, and JC4I Masters Program by representatives from the Joint Staff (J-2, J-6, J-7), Services, combatant commands, and defense agencies; ASD (NII) and representatives from each school shall be invited to participate. The Joint Staff/J-6 will chair the review committee. (Joint Staff/J-6 lead/J-2, J-7 support)
 - e. Joint C4 training not reviewed in one of the formal curriculum reviews will be reviewed by participation in course boards, committees, or program of instruction reviews of those courses (e.g., spectrum training, Joint Multi-Tactical Data Link School courses). (Joint Staff/J-6 lead/J-2, J-7 support)

¹ J-6 as the OPR for Joint C4 is the lead for formulating vision, learning requirements, review processes, and assessment procedures of specific concern to the Joint C4 community. J-7 supports J-6 by assisting with the delivery of Joint C4 education to the joint community through the Military Education Coordination Council (MECC) and associated processes.

f. Review joint C4 distributed learning content with the objective of ensuring that it is consistent with paragraph 2.e, Enclosure A of this document. (Joint Staff/J-6 lead/J-2, J-7 support)

4. Combatant Commands

a. Review combatant command needs and schedule individual joint C4 education and training as required. Ensure requisitions and billet coding specifies training en route.

b. Review requirements for joint billets coded to be filled by joint C4 education and training program graduates and ensure identified billets are annotated with the appropriate criteria.

c. Ensure joint net-centric training for all training levels is included in joint training plans.

d. Provide individuals with current joint C4 experience to serve on curriculum training review committees.

e. In accordance with reference q, USJFCOM will assist other combatant commands, Services, and Defense agencies with the execution of their respective joint training programs and ensure JNO C4 training is incorporated to meet joint requirements.

5. Services

a. Review combatant command and Service needs and schedule individual joint C4 education and training as required. Services should ensure individuals assigned to joint duty receive appropriate joint training en route to joint assignment.

b. Review requirements for billets coded or annotated to be filled by joint C4 education and training program graduates.

c. Provide individuals with current joint C4 experience to serve on curriculum and training review committees.

d. Ensure that information or school codes for joint course completion are recorded in individual training records.

e. Consider net-centric training and education in Service training and education.

6. Defense Agencies

- a. Review Defense agency needs and schedule individual joint C4 education and training as required.
- b. Review requirements for billets coded or annotated to be filled by joint C4 education and training program graduates.
- c. Provide expertise in technical matters to the curriculum review committees.

7. President, NPS

- a. Maintain a curriculum for respective courses consistent with Enclosure A of this directive.
- b. Schedule and market courses to ensure visibility of educational opportunities to potential students.
- c. Provide C4 expertise and research for combatant commanders and Defense agencies as applicable.
- d. Ensure that joint school graduate information is provided to Services for recording in individual training records.

8. President, NDU and Commanding General, USASC&FG

- a. Maintain a curriculum for respective courses consistent with Enclosure A of this directive.
- b. Schedule and market courses to ensure visibility of training opportunities to potential students.
- c. Conduct, where feasible, mobile training to joint forces.
- d. Provide C4 expertise to deployed forces as applicable.
- e. Ensure that joint school graduate information is provided to Services for recording in student training records.

9. Administration, Personnel, and Finance

- a. Faculty. In order to ensure proper administration and instruction is conducted, the Services will continue to provide the commissioned officers,

warrant officers, and enlisted personnel augmented by civilian personnel for the staff and faculty of the NPS, JC4ISOC, and the JC4PC.

(1) Joint C4I Program, NPS

(a) The joint C4 curricular officer is designated an Air Force lieutenant colonel billet. This officer ensures the graduate program is conducted in a manner consistent with joint objectives and incorporates current joint doctrine and practice.

(b) The NPS shall assign two faculty members, one Army and one Air Force (preferably O-5s with C4 experience) to the Joint C4I Program. The Air Force faculty member will be in addition to the curricular officer.

(2) JC4ISOC

(a) U.S. Navy

1 Course Director

a Rank: O5 (Minimum O5)

b Designator: 1050

c Subspecialty: 6204P

d AQD: JS8 (JPME Ph 1 & 2)

e NOBC: 3265 (Adv C&S School Instructor)

2 Course Instructor

a Rank: O4-O5 (Minimum O4)

b Designator: 1020

c Subspecialty: None

d AQD: JS8 (JPME Ph 1 & 2)

e NOBC: 3265 (Adv C&S School Instructor)

(b) U.S. Army

1 Instructor, Strategic and Tactical Communications Systems.

Grade 04/05, code 25A, 26, 27

2 Instructor, Information Systems. Grade 04/05, code 53A.

(c) U.S. Air Force

1 Instructor, Warning and Intelligence Systems. Grade 04/05.
Suggested AFSCs: 12S, 13S, 14N, or 33S (preferred 13S).

2 Instructor, Tactical Command and Control Systems. Grade 04/05. Qualifications: Previous duty in a Tactical Air Control System is highly desired; duty in joint tactical C4 activities is desirable. May be rated or non-rated. Suggested AFSCs: 11B, 11F, 12S, 13B, 13S, or 33S (preferred 33S)

(3) JC4PC. Manning in accordance with reference i.

b. The temporary duty expenses for students attending the Joint C4I Program NPS, JC4ISOC, or JC4PC will be borne by the individual's parent Service or sponsoring Defense organization.

c. The pay, allowance, subsistence, and permanent change of station costs for students, faculty, and staff will be borne by the individual's parent Service or sponsoring Defense agency.

d. The Navy, as executive agent, is responsible for programming, budgeting, and financing the Joint C4I Systems Masters Program at the NPS.

e. In accordance with reference d, the Secretary of Defense provides funds for the JC4ISOC through NDU.

f. In accordance with reference i, the Services will fair share split the funding for the JC4PC.

10. Selection and Assignment

a. Military Services are to stress the importance of joint C4 education and training through the support of joint C4 education and training programs for middle- and senior-grade personnel.

b. Personnel attending the JC4ISOC should be assigned to or be en route to a joint C4 billet or in a billet requiring knowledge of joint C4 systems. Graduates of the JC4ISOC will be identified in their appropriate Service training system as having completed the JC4ISOC.

c. Graduates of the NPS curriculum will be identified by their appropriate Service training system as joint C4-qualified asset. Immediate assignment of the graduate to a joint C4 billet is recommended. However, if immediate

assignment is not possible, subsequent assignment to a C4 billet is an acceptable alternative.

d. Graduates of the JC4PC will be identified in their appropriate Service training system as having completed joint C4 planner training.

e. Combatant commands will designate billets as needed which require assignment of joint C4 planner qualified personnel, graduates of the JC4PC, JC4ISOC, and the NPS.

f. Services should consider recoding or annotating Service billets which, because of their potential to be called upon to make up a joint task force, would benefit from assignment of joint C4 planner qualified personnel.

ENCLOSURE C

REFERENCES

- a. Title 10, Chapter 5, Section 153
- b. MJCS 77-83, 8 November 1983, "Management of Joint Command, Control, and Communications Education and Training Programs"
- c. MJCS 83-78, 23 March 1978, "Joint Command, Control, and Communications Staff and Operations Course"
- d. Title 10, USC Chapter 108, Section 2165
- e. CJCSI 1800.01 series, "Officer Professional Military Education Policy (OPMEP)"
- f. CJCSI 1801.01 series, "National Defense University Education Policy"
- g. CJCSI 3500.01 series, "Joint Training Policy and Guidance for the Armed Forces of the United States"
- h. CJCSI 6240.01 series, "Responsibilities for the Joint Tactical Air Operations Interface Training Program"
- i. JROCM 237-05, 1 November 2005, "Joint C4 Planners Course DOTMLPF Change Recommendation"
- j. CJCSM 3122.03B, 28 Feb 06, Joint Operation Planning and Execution System Volume II, Planning Formats and Guidance
- k. CJCSI 1805.01 series, "Enlisted Professional Military Education Policy"
- l. JP 2-0, Joint Intelligence
- m. JP 3-0, Joint Operations.
- n. JP 3-13, Information Operations
- o. JP 3-16, Multinational Operations
- p. JP 6-0, Joint Communications System
- q. Unified Command Plan
- r. Net-Centric Environment Joint Functional Concept

- s. Net-Centric Operational Environment Joint Integrating Concept
- h. CJCSI 5120.02, Joint Doctrine Development System

GLOSSARY

ABBREVIATIONS AND ACRONYMS

ASD/NII	Assistant Secretary of Defense (Networks and Information Integration)
C2	command and control
C4	command, control, communications, and computer
C4I	command, control, communications, computers, and intelligence
COMSEC	communications security
DIA	Defense Intelligence Agency
DISA	Defense Information Systems Agency
GIG	Global Information Grid
J-1	Manpower and Personnel Directorate, Joint Staff
J-6	C4 Systems Directorate, Joint Staff
J-7	Operational Plans and Joint Force Development Directorate, Joint Staff
JC4ISOC	Joint C4I Staff and Operations Course
JC4PC	Joint Command, Control, Communications, and Computer Planners Course
JFSC	Joint Forces Staff College
JOPEs	Joint Operation Planning and Execution System
MCEB	Military Communications/Electronics Board
MJCS	Memorandum Joint Chiefs of Staff
NDU	National Defense University
NPS	Naval Post Graduate School
NSA	National Security Agency
OSD	Office of the Secretary of Defense
USASC&FG	US Army Signal Center and Fort Gordon, Fort Gordon, GA

TERMS AND DEFINITIONS

education. Education conveys general bodies of knowledge and develops habits of mind applicable to a broad spectrum of endeavors.

individual joint training. Training that prepares individuals to perform duties in joint organizations (e.g., specific staff positions or functions) or to operate uniquely joint systems. Individual staff training ensures that individuals know, are proficient in, and have the joint competencies and skills to apply joint doctrine and procedures necessary to function as staff members.

interagency. U.S. government agencies and departments, including the Department of Defense. (JP 3-08)

interagency coordination. Within the context of Department of Defense involvement, the coordination that occurs between elements of Department of Defense, and engaged U.S. government agencies for the purpose of achieving an objective. (JP 3-0)

interagency training. Training of individuals, units, and staffs considered necessary to execute their assigned or anticipated missions in support of interagency operations.

joint training. Training, including mission rehearsals, of individuals, units, and staffs using joint doctrine or joint tactics, techniques, and procedures to prepare joint forces or joint staffs to respond to strategic, operational, or tactical requirements considered necessary by the combatant commanders to execute their assigned or anticipated missions.

multinational training. Training of individuals, units, and staffs considered necessary to execute their assigned or anticipated missions in support of multinational operations, including coalition operations.

Service training. Military training based on Service policy and doctrine to prepare individuals and interoperable units. Service training includes basic, technical, operational, and interoperability training in response to operational requirements deemed necessary by the combatant commands to execute assigned missions.

training. Instruction and applied exercises for acquiring and retaining skills, knowledge and attitudes required to complete specific tasks. The focus of training is on the instruction of personnel to enhance their capacity to perform specific functions and tasks.