



***JOINT AIR OPERATIONS
PLANNING COURSE***

SYLLABUS

AY25

**JOINT PROFESSIONAL MILITARY EDUCATION
PHASE I INTERMEDIATE LEVEL COURSE**

**UNITED STATES AIR FORCE
AIR COMMAND AND STAFF COLLEGE**
Twenty-first Century Leaders for Twenty-first Century Challenges

**AIR COMMAND AND STAFF COLLEGE
MAXWELL AFB, AL**

FOREWORD

This syllabus for the Joint Air Operations Planning Course (JO) for the Air Command and Staff College, July 2024, provides both an overview of the course narrative and objectives, as well as a detailed description of each lesson to assist students in their reading and preparation for lecture, workshops, and seminar. Included herein is information about course methods of evaluation, schedule, and the fulfillment of joint professional military education core goals.

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JOINT AIR OPERATIONS PLANNING (JO) OVERVIEW

COURSE DESCRIPTION

The Joint Air Operations Planning course educates officers and civilians in the fundamental concepts, principles, and doctrine required to produce the air component portion of the joint/combined campaign plan. It includes four areas of instruction built around specific learning objectives: air component planning fundamentals; the Joint Planning Process for Air (JPPA), which incorporates operational design; the air component planning exercise; and a professional writing practicum.

COURSE OBJECTIVES

1. Understand operational design and the JPPA as problem-solving frameworks for air-minded officers.
2. Understand the fundamentals of critical reading and academic writing.

COURSE NARRATIVE AND ORGANIZATION

Contemporary and emerging national security challenges call for enhanced officer proficiency with formal military planning. The USA and USMC traditionally introduce officers to the Military Decision-Making Process (MDMP) and the Marine Corps Planning Process (MCP) at the lower levels of professional military education and training. While certain USAF assignments or career fields may require familiarity with formal military planning, many USAF O-4s remain relatively underexposed to the JPPA and the Joint Planning Process (JPP) on which it rests. Although the MDMP and MCP differ from the JPPA, they serve to familiarize USA and USMC officers with a formal planning process. The Joint Air Operations Planning Course (JO) fulfills the need to educate all officers on the JPPA used to employ airpower. JO prioritizes familiarization with the JPPA and JPP, which are critical to understanding how air warfare can and should be conducted.

The JO course centers on air warfare at the operational level and, more specifically, planning for joint air operations. It asks: What does the JPPA comprise? What is a Joint Air Operations Plan (JAOP)? Why is it important? Beyond production of the JAOP, what are other Joint Force Air Component Commander's (JFACC) responsibilities?

The JO course is designed for amplifying student comprehension of the relevant terms, concepts, and processes addressed above. It centers on familiarization with the JPPA, as prescribed in Joint Publication 3-30, Joint Air Operations, and the basics of the JPP and operational design, as prescribed in JP 5-0, Joint Planning. Its focus on Joint Force Air Component planning methods and the fundamentals of planning at the operational level of war supports student advancement through subsequent courses in the ACSC curriculum.

The JO course consists of eight eight-hour days. It aligns with the JAOP course taught by the Lemay Center, ensuring that ACSC students receive the same certification they would obtain by attending the Lemay Center's course.

- Day zero provides students with the course director's preview of the course's purpose and content. Readings address the strategic environment and the doctrinal foundations of the course.
- Day one examines Joint Task Force Basics and the Joint Planning Functions, covers the basics of operational design (followed by the Operational Design I workshop), and highlights key planning documents.
- Day two addresses integrated deterrence, focusing on adversary organization, strategy, and warfighting approaches. It goes on to cover Center of Gravity (COG) analysis (followed by the COG Analysis workshop) and command relationships.
- Day three begins with a senior leader lecture on planning. It proceeds to address JPPA steps 1 & 2 and the role of intelligence in air operations planning (followed by the Operational Design II workshop), then concludes with coverage of space and cyber capabilities.
- Day four explores risk analysis, the mission statement (workshop), JPPA steps 3-5, joint all-domain operations (JADO), combat support considerations, and theater air ground systems (TAGS).
- Day five covers JPPA steps 6 and 7, examining joint airpower roles, missions and weapon systems, the Joint Air Operations Center, and air and missile defense design. It includes an overview of the JO Capstone Exercise and the Road to War brief for the exercise.
- Days six, seven, and eight center on the JO Exercise. During the exercise, students refine and reinforce their grasp of operational design and the JPPA. They present operational design, mission analysis, and course of action decision briefings. Upon completion of the exercise, students take and submit an end-of-course exam.

ACSC PROGRAM LEARNING OUTCOMES (JPME-I)

The JO course addresses Intermediate-Level College Joint Learning Areas and Objectives for Joint Professional Military Education, established by the Chairman of the Joint Chiefs of Staff via the Officer Professional Military Education Policy (OPMEP), CJCSI 1800.01G, signed 15 April 2024. The ACSC Curriculum for AY25 supports the following ACSC Program Learning Outcomes, by producing graduates who can:

1. **(Apply) ...demonstrate creative thinking, critical analysis, and persuasive communications in operational problem solving.**
 - JO course objectives 1 and 2 address this PLO.
2. **(Apply) Apply principles of leadership and ethics to decision-making based on the shared values of the profession of arms.**

- JO course objective 1 addresses this PLO.
3. **(Apply) Apply the capabilities, limitations, and integration of the instruments of national power across the spectrum of competition, conflict, and war.**
 - JO course objective 1 addresses this PLO.
 4. **(Analyze) Analyze operational environments marked by complexity, uncertainty, and surprise.**
 - JO course objective 1 addresses this PLO.
 5. **(Apply) Apply military theory, doctrine, strategic guidance, and joint warfighting principles to plan for all-domain, globally integrated operations.**
 - JO course objective 1 addresses this PLO.
 6. **(Understand) ...explain the conduct of contemporary and emerging warfare.**
 - JO course objective 1 addresses this PLO.

COURSE REQUIREMENTS

1. **READINGS.** Students are expected to complete all daily assigned readings prior to lecture and workshops. Students should review the lesson objectives and overviews provided in the syllabus before reading the assigned texts. The Reading Resources folder in Teams contains all required publications.
2. **LECTURES.** Lectures are key to JO. Along with the readings, they introduce the course concepts. Students will attend faculty lectures relating to the assigned readings and workshops. These presentations complement the readings and workshop discussion, and therefore enhance knowledge of the course concepts.
3. **WORKSHOP PARTICIPATION.** Student participation in workshops is vital to individual learning and success. Each student is expected to contribute to the workshops.
4. **DELIVERABLES.** Each student will individually complete a one to two-page writing practicum. Students will complete a self-paced quiz at the end of days 1-5. Students will present Operational Design, Mission Analysis, and COA Decision briefings in the JO exercise. Each student will complete the timed, open-book, end-of-course exam.
5. **METHODS OF EVALUATION.** This course is graded pass/fail. The paper is pass/fail. The Operational Design, Mission Analysis, and COA Decision briefings are pass/fail. The daily quizzes and end-of-course exam are pass/fail.

COURSE ADMINISTRATION

Students can access the syllabus, course calendar, selected readings, and other supplemental materials in Teams ACSC-ATO > 1. Joint Air Operations Planning.

JO course materials can also be accessed at:

- Joint Doctrine and CJCS Manuals – Joint Electronic Library, <http://dtic.mil/doctrine> (common access card enabled)
- Air Force Doctrine – Air Force Doctrine website, <https://www.doctrine.af.mil/>
- Air Force Instructions – Air Force Publications website, <https://www.e-publishing.af.mil/>
- Multi-Service Tactics, Techniques and Procedures for Air and Missile Defense – Air Land Sea Application Center website, <http://www.alsa.mil>

Please refer any questions to the Course Director, Lt Col Mary “Kassi” Marshall (mary.marshall.1@au.af.edu, or DEW Hallway, Office 149B).

DAY 0: Course Introduction

DATE: 19 July 2024

LESSON OVERVIEW

JO-500 (Lecture): Course Overview

Overview: This lecture introduces the course, syllabus, and lessons for the JO course.

CONTACT HOURS: 1-hour lecture

*** Introductions in seminar room to follow*

DAILY REQUIRED READINGS

1. President, *National Security Strategy* (Washington, DC: White House, 2022), pages 6-10 and 22-34. (18 pp; skim)
2. Secretary of Defense, *National Defense Strategy* (Washington, DC: Pentagon, 2022), pages 1-23. (23 pp; skim)
3. President, *Indo-Pacific Strategy* (Washington, DC: White House, 2022), pages 4-18. (15 pp)
4. Aquilino, John C. *United States Indo-Pacific Command: Posture Statement* (Washington, DC: s.n., 2024), pages 1-44. (44 pp)
5. Department of Defense, *Military and Security Developments Involving the People's Republic of China* (Washington, DC: Pentagon, 2023), Ch. 4. (15 pp)
6. Luke A. Nicastro, *US Defense Infrastructure in the Indo-Pacific: Background and Issues for Congress*. CRS Report No. R47589 (Washington, DC: Congressional Research Service, 2023), pages 1-31. (31 pp; skim)
7. Department of the Air Force, *The Air Force*, AFDP 1 (Washington, DC: Department of the Air Force, 2021), pages 1-16. (16 pp)
8. Directorate for Doctrine Development, *Air Force Doctrine Smart Book* (Maxwell Air Force Base: LeMay Center for Doctrine Development and Education, 2023), pages 4-35. (32 pp; skim)

DAY 1: Joint Basics and Operational Design

DATE: 22 July 2024

LESSON OVERVIEW

JO-501 (Lecture): Joint Task Force (JTF) Basics

Overview: This lecture introduces the JTF, its organization, subordinate components, and responsibilities and the role of planning, integration, and synchronization in support of the JTF commander.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Comprehend the purpose, structure, and activities of a Joint Task Force (JTF).

LESSON OVERVIEW

JO-502 (Lecture): Joint Planning Functions

Overview: This lecture introduces and defines joint planning, describes the Joint Planning and Execution Community (JPEC), summarizes joint planning activities and functions, defines the four levels of planning detail, and summarizes plans relationships and the Joint Planning Process (JPP).

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Comprehend the fundamentals of joint planning.

LESSON OVERVIEW

JO 503 (Lecture): Senior Leader Perspective

Overview: This lecture provides insights on why joint planning is important to joint and air-minded leaders.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Understand how joint planning is important to joint/air minded leaders.

LESSON OVERVIEW

JO-504 (Lecture): Operational Design

Overview: This lecture introduces and defines operational art and operational design, addressing the operational design methodology, the elements of operational design, and the use of facts and assumptions for planning. It further establishes how operational art and design enable planners to define and frame a problem, develop an Operational Approach, and refine that approach into a detailed plan via the Joint Planning Process or the Joint Planning Process for Air.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Understand the fundamentals of operational art and operational design, and their relationship to the Joint Planning Process and the Joint Planning Process for Air.

LESSON OVERVIEW

JO-505 (Workshop – Seminar Room): Operational Design I

Overview: This workshop builds on and reinforces the objectives from JO-504. It asks students to apply operational art and operational design to a given scenario using design methodology, the elements of operational design, facts and assumptions, and the strategic documents listed under Day 0 - Daily Required Readings.

CONTACT HOURS: 1-hour and 45-minute workshop

LESSON OBJECTIVES

1. Apply the basic concepts of operational art and operational design to an INDOPACOM-China scenario.

LESSON OVERVIEW

JO-506 (Asynchronous Lecture): Key Planning Documents

Overview: This lecture introduces the Joint Air Operations Center (JAOC) and the key documents used in the JAOC: the Joint Air Operations Plan (JAOP), the Air Operations Directive (AOD), the Area Air Defense Plan (AADP), the Airspace Control Plan (ACP), the Airspace Control Order (ACO), the Air Tasking Order (ATO), the ATO Special Instructions (SPINS) and the Joint Integrated Prioritized Target List (JIPTL).

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Understand selected key documents associated with the Joint Air Operation Center (JAOC) planning, execution and targeting functions and processes.

DAILY REQUIRED READINGS

1. JP 5-0, Joint Planning, 1 December 2020, Executive Summary, pages xi to xxx, III-75, and IV-1 to IV-45. (65 pp) (**JO 501, 502, 504, 505**)
2. JP 3-30, Joint Air Operations, 25 July 2019, Executive Summary, pages ix to xviii. (9 pp) (**JO 506**)
3. Review: Day 0 - Daily Required Readings

Total: 74 pages

WRITTEN ASSIGNMENT

JO-600 Writing Practicum is formally assigned. The assignment is due on 28 July/1700.

LESSON OVERVIEW

JO-601 Quiz (Asynchronous - Open Book)

Day 2: Integrated Deterrence, COG Analysis, and Command Relationships

DATE: 23 July 2024

LESSON OVERVIEW

JO-507 (Workshop – Seminar Room): Integrated Deterrence - Adversary Organization, Strategy, and Warfighting Approaches

Overview: This workshop examines China's organization, strategy, and capabilities compared to the those of the U.S. The workshop affords enhanced understanding of the current and future operating environments.

CONTACT HOURS: 3.5-hour workshop

LESSON OBJECTIVES

1. Understand the concept of integrated deterrence as it applies to China.

LESSON OVERVIEW

JO-508 (Lecture): Center of Gravity (COG) Analysis

Overview: This lecture introduces the concept of a COG, describes the importance of conducting COG Analysis, describes the Joint model and its use in analyzing operational-level COGs, and describes other COG analysis models.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Comprehend the concept of identifying and analyzing enemy and friendly centers of gravity.

LESSON OVERVIEW

JO-509 (Workshop – Seminar Room): COG Analysis

Overview: This workshop builds on lesson JO-508 to understand and apply the concept of a COG, the importance of conducting COG Analysis through Critical Factor Analysis, the Joint model and its use in analyzing operational-level COGs, and other COG analysis models.

CONTACT HOURS: 1-hour and 45-minute workshop

LESSON OBJECTIVES

1. Apply the concept of identifying and analyzing enemy and friendly COGs in an INDOPACOM-China scenario.

LESSON OVERVIEW

JO-510 (Asynchronous Lecture): Command Relationships

Overview: This lecture introduces the four types of joint command authority, the concept of transferring forces between commands, the components of the DOD, and different authorities and responsibilities of the COMAFFOR as the Service Component Commander compared to those of a JFACC.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Comprehend the command relationships and authorities of joint forces within the DOD.

DAILY REQUIRED READINGS

1. China focused material provided in classroom during Workshop. (**JO 507**)
2. JP 5-0, pages IV-22 to IV-27. (6 pp) (**JO 508/509**)
3. AFDP 3-0, Operations and Planning, Appendix: Center of Gravity Analysis Methods, pages 131-137. (7 pp) (**JO 508/509**)
4. AFDP 3-30, Command and Control, pages 6-21. (16 pp) (**JO 510**)
5. Jeffrey M. Reilly, *Operational Design: Distilling Clarity from Complexity for Decisive Action*, pages 40 to 50. (11 pp) (**JO 508/509**)

Total: 40 pages (plus in-class China focused material)

LESSON OVERVIEW

JO-602 Quiz (Asynchronous - Open Book)

LESSON OVERVIEW

JO-511 (Lecture): Planning Perspective

Overview: This lecture provides a senior planner perspective on issues planners face when preparing and coordinating a JAOP.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Comprehend the issues that planners face when preparing and coordinating a JAOP.

LESSON OVERVIEW

JO-512 (Lecture): JPPA Steps 1 and 2

Overview: This lecture introduces the JPPA steps 1 and 2. It identifies the authority empowered to initiate the JPPA, summarizes the information analyzed during step 1, explains mission analysis and how it enhances the synergy of Combined/Joint operations, explains the importance for air component planners to understand the scope of the mission and guidance provided, and describes the elements of a mission analysis briefing.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Comprehend the inputs and outputs of JPPA initiation and mission analysis steps.

LESSON OVERVIEW

JO-513 (Lecture): Intelligence in Air Operations Planning

Overview: This lecture introduces the intelligence community, its mission and customers, commander's critical information requirements (CCIR), Intelligence Preparation of the Operational Environment (IPOE) and how it supports planning.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Understand how intelligence supports the joint planning process for air.

LESSON OVERVIEW

JO-514 (Workshop – Seminar Room): Operational Design II

Overview: This workshop builds on and reinforces the objectives from JO-504 and 505 and translates how operational art and design allow planners to begin to develop the Operational Approach. Additionally, this lesson highlights how the nine steps of operational design methodology enable planners to define and frame the problem and ultimately create a foundation for the JPP and JPPA.

CONTACT HOURS: 2-hour workshop

LESSON OBJECTIVES

1. Apply the basic concepts of operational art and operational design to an

INDOPACOM-China scenario.

LESSON OVERVIEW

JO-515 (Asynchronous Lecture): Space and Cyber Capabilities

Overview: This lesson familiarizes the student with the space and cyberspace domains and operational capabilities. It also addresses how air component planners should consider the space and cyberspace domains when planning and how space and cyberspace support can be requested.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Comprehend the fundamentals of space and cyberspace operations and how space and cyberspace capabilities support joint operations.

DAILY REQUIRED READINGS

1. JP 3-30, pages III-1 to III-8. (8 pp) **(JO 514)**
2. JP 2-0, Joint Intelligence, Executive Summary, pages xi to xvi. (6 pp) **(JO 513)**
3. AFDP 2-0, Intelligence, pages 1-31. (31 pp) **(JO 513)**
3. Joint Publication 3-14, Joint Space Operations, Executive Summary, pages vii to xiv, II-1 to II-8, and III-1-III-7 (15 pp) **(JO 515)**
4. Joint Publication 3-12, Joint Cyberspace Operations, Executive Summary, pages vii to xviii. (12 pp) **(JO 515)**
5. AFDP 3-12, Cyberspace Operations, pages 1-12. (12 pp) **(JO 515)**
6. AFDP 3-85, Electromagnetic Spectrum Operations, pages 1-13. (13 pp) **(JO 515)**
6. China focused material provided in classroom. **(JO 512)**

Total: 91 pages

LESSON OVERVIEW

JO-603 Quiz (Asynchronous - Open Book)

Day 4: Risk, Mission Statement, JPPA, JADO, Combat Support, and TAGS

DATE: 25 July 2024

LESSON OVERVIEW

JO-516 (Lecture): Risk Analysis

Overview: This lecture introduces the concept of risk, the role of risk in joint planning, joint planning for air risk factors, and methods to mitigate risk in any plan.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Comprehend the definition of risk, the role of risk in joint planning in mission analysis, and the role of risk imposed by combat support and operational factors on a given course of action (COA) during COA development.

LESSON OVERVIEW

JO-517 (Workshop – Seminar Room): Mission Statement

Overview: This workshop covers the process used to develop a mission statement for a JFACC. The mission statement is a concise paragraph that describes the mission in terms of who, what, when, where, and why.

CONTACT HOURS: 45-minute workshop

LESSON OBJECTIVES

1. Comprehend the five required components of a JFACC mission statement.

LESSON OVERVIEW

JO-518 (Lecture): Joint Planning Process for Air (JPPA), Step 3

Overview: This lecture introduces the Joint Planning Process for Air COA Development, explains the components of a phase plan, explains the process to refine operational objectives and the link between objectives, effects, and tasks, explains MOEs and MOPs, explains air apportionment and air allocation, and revisits risk.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Understand the key inputs, outputs, and activities of COA Development for the Joint Planning Process for Air.

LESSON OVERVIEW

JO-519 (Lecture): Joint All Domain Operations

Overview: This lecture explains the framework for air and space components supporting joint all-domain operations (JADO). Actions by the joint force in multiple domains are integrated in planning and synchronized in execution, at the speed and scale needed to gain an advantage to accomplish the mission.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Comprehend terms, concepts, and ideas associated with Joint All-Domain Operations.

LESSON OVERVIEW

JO-520 (Lecture): Joint Planning Process for Air (JPPA), Steps 4-5

Overview: This lecture introduces the Joint Planning Process for Air for COA Analysis and Wargaming and COA Comparison. It revisits concepts from JO 518 and discusses the different methods for conducting COA Analysis and Wargaming and COA Comparison.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Understand the key inputs, outputs, and activities of the Joint Planning Process for Air COA Development, COA Analysis and Wargaming, and COA Comparison steps.

LESSON OVERVIEW

JO-521 (Asynchronous Lecture): Combat Support Considerations

Overview: This lecture introduces how combat support considerations impact the JPPA, including issues faced when planning for an expeditionary base, the importance of force protection, the purpose of Unit Type Codes (UTC) and Time-Phased Force and Deployment Data (TPFDD), planning guidance in the USAF War and Mobilization Plan (WMP), and how lift requirements and logistics decisions affect execution. The lesson identifies deployment integration issues and after-action reporting and the Joint Lessons Learned Information System (JLLIS).

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Comprehend how combat support considerations identified in doctrine impact the JPPA.

LESSON OVERVIEW

JO-522 (Asynchronous Lecture): Theater Air Ground Systems (TAGS)

Overview: This lecture introduces the characteristics and operations of the primary elements of the TAGS, the Air Force theater air control system (TACS), the Army air ground system (AAGS), the Navy tactical air control system (NTACS), the Marine air command and control system (MACCS), Special Ops air ground system (SOAGS), the responsibilities of the area air defense commander (AADC) for the integrated air defense (IAMD) and the area air defense plan (AADP).

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Understand the elements of the air component responsibilities to the system that comprise the theater air ground system (TAGS) and the primary function.

DAILY REQUIRED READINGS

1. JP 5-0, pages I-20 to I-22, III-32 to III-58, and V-15. (30 pp) **(JO 516, 518, 520)**
2. JP 3-30, pages III-6 to III-8 (review) and page A-1. (4 pp) **(JO 517)**
3. AFDP 3-99, DAF Role in JADO, Ch 1, pages 1-12 and 15-25. (22 pp) **(JO 519)**
4. JP 3-30, pages III-8 to III-14. (6 pp) **(JO 518 and 520)**

Total: 62 pages

RECOMMENDED VIEWING

1. “A Deeper Look into AFDP 3-99, Joint All Domain Operations,” (video, LeMay Center, ~21 min) (**JA 522**)

LESSON OVERVIEW

JO-604 Quiz (Asynchronous - Open Book)

**Day 5: JPPA, Joint Air Power, Road to War, Exercise Introduction,
and Air and Missile Defense Design**

DATE: 26 July 2024

LESSON OVERVIEW

JO-523 (Lecture): Joint Planning Process for Air (JPPA), Steps 6-7

Overview: This lecture introduces JPPA Step 6, COA Approval and Step 7, Plan or Order Development. It explains the COA Approval key participants and their roles, the key components of the COA Decision Brief, the JPPA outputs used to build the JAOP and the basic JAOP format.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Understand the COA approval step of the JPPA and the JAOP development step.

LESSON OVERVIEW

JO-524 (Lecture): Joint Airpower Roles and Missions

Overview: This lecture examines doctrinal principles that shape and guide effective joint air planning and employment, discusses joint air forces and joint air operations. It also introduces key operational level mission areas where effective joint air operations are critical.

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Understand joint airpower roles and missions.

LESSON OVERVIEW

JO-525 (Lecture): Joint Air Operations Center (JAOC)

Overview: This lecture introduces the characteristics and operations of the primary elements of the JAOC and the Joint Air Tasking Cycle (JATC).

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Understand how JFACCs command and control joint air operations.

LESSON OVERVIEW

JO-526 (Lecture, followed by Workshop – Seminar Room): JO Exercise Road to War

Overview: This lecture introduces the scenario for the JO exercise. This lecture is an overview of strategic competition, historical and ongoing international events, and other considerations that will provide the basis for student-directed study and preparation for the JO exercise. Students will study materials related to the unclassified JO exercise scenario to enable student-led planning and briefing activities. In the subsequent workshop, the instructor outlines the seminar's responsibilities with regards to completing the JO exercise.

CONTACT HOURS: 1-hour lecture, followed by 30-minute overview in seminar

LESSON OBJECTIVES

1. Understand the INDOPACOM-China JO exercise scenario.

2. Understand how to successfully complete the three-day JO exercise.

LESSON OVERVIEW

JO-527 (Asynchronous Lecture): Air and Missile Defense Design

Overview: This lecture introduces the concept of air and missile defense plan (AADP) in relation to the joint air plan (JAOP), how to conduct a Criticality Vulnerability Threat (CVT) analysis, and the differences between the Critical Asset List (CAL) and the Defended Asset List (DAL).

CONTACT HOURS: 1-hour lecture

LESSON OBJECTIVES

1. Understand the fundamentals of defense design and planning products used to address area air defense design.

REQUIRED READINGS

1. JP 3-30, pages III-14 to III-16, Appendix C. (8 pp) **(JO 523)**
2. JP 5-0, pages III-58 to III-65. (7 pp) **(JO 523)**
5. AFDP 3-01, Counterair Operations, pages 1-7 and 25-29. **(JO 524)**
6. AFDP 3-03, Counterland Operations, pages 1-12. **(JO 524)**
7. AFDP 3-04, Countersea Operations, pages 1-12. **(JO 524)**
8. AFDP 3-05, Special Operations, pages 1-17. **(JO 524)**
9. AFDP 3-36, Air Mobility Operations, pages 1-7. **(JO 524)**
10. AFDP 3-50, Personnel Recovery, pages 1-10. **(JO 524)**
11. AFDP 3-70, Strategic Attack, pages 1-6. **(JO 524)**
12. AFDP 3-72, Nuclear Operations, pages 1-4. **(JO 524)**
13. JP 3-30, Appendix E, Appendix F, Appendix G. (12 pp) **(JO 525)**
14. JP 3-01, Countering Air and Missile Threats, pages IV-2 to IV-5, and V-8 to V-9. (6 pp) **(JO 527)**

Total: 112 pages

LESSON OVERVIEW

JO-605 Quiz (Asynchronous - Open Book)

LESSON OVERVIEW

JO-528 (Exercise) Operational Design

Overview: This period is dedicated to group exercise development of an operational design/operational approach and preparation for an operational design briefing with instructor advising and assisting.

CONTACT HOURS: 3-hour exercise

LESSON OBJECTIVES

1. Utilize appropriate activities involved in the JPPA to develop solutions to operational problems in a volatile, uncertain, complex, and ambiguous environment of strategic competition and integrated deterrence.

LESSON OVERVIEW

JO-606 (Exercise Briefing) Operational Design Brief

Overview: This period is dedicated to group exercise operational design briefing to the JO seminar instructor.

CONTACT HOURS: 1-hour briefing

LESSON OBJECTIVES

1. Apply joint planning concepts in an INDOPACOM-China scenario to develop an initial operational approach based on planning directives and guidance provided.

LESSON OVERVIEW

JO-529 (Exercise) Initiation and Mission Analysis (JPPA Steps 1 & 2)

Overview: This period is dedicated to group exercise development of JPPA steps Initiation and Mission Analysis with instructor advising and assisting.

CONTACT HOURS: 3-hour exercise

LESSON OBJECTIVES

1. Utilize appropriate activities involved in the JPPA to develop solutions to operational problems in a volatile, uncertain, complex, and ambiguous environment of strategic competition and integrated deterrence.

DAILY EXERCISE MATERIALS (AS NEEDED)

1. JO Exercise INDOPACOM-China scenario planning guidance, research materials, threat information, and other open-source research sources as required.
2. JP 5-0
3. JP 3-30
4. Joint Capabilities Primer
5. Joint Staff Officer's Planning Guide

LESSON OVERVIEW

JO-529 (Exercise) Initiation and Mission Analysis (JPPA Steps 1& 2 Continued)

Overview: This period is dedicated to group exercise development of JPPA steps Initiation and Mission Analysis with instructor advising and assisting.

CONTACT HOURS: 3-hour exercise

LESSON OBJECTIVES

1. Utilize appropriate activities involved in the JPPA to develop solutions to operational problems in a volatile, uncertain, complex, and ambiguous environment of strategic competition and integrated deterrence.

LESSON OVERVIEW

JO-607 (Exercise Briefing) Mission Analysis Brief

Overview: This period is dedicated to the group presenting an exercise mission analysis briefing to the JO seminar instructor.

CONTACT HOURS: 1-hour briefing

LESSON OBJECTIVES

1. Apply joint planning concepts in an INDOPACOM-China scenario to a Mission Analysis Briefing based on planning directives and guidance provided.

LESSON OVERVIEW

JO-530 (Exercise) COA Development, COA Analysis and Wargaming, and COA Comparison (JPPA Steps 3-5)

Overview: This period is dedicated to group exercise development of JPPA steps 3-5 - COA Development, COA Analysis and Wargaming, and COA Comparison - with instructor advising and assisting.

CONTACT HOURS: 3-hour exercise

LESSON OBJECTIVES

1. Utilize appropriate activities involved in the JPPA to develop solutions to operational problems in a volatile, uncertain, complex, and ambiguous environment of strategic competition and integrated deterrence.

DAILY EXERCISE MATERIALS (AS NEEDED)

1. JO Exercise INDOPACOM-China scenario planning guidance, research materials, threat information, and other open-source research sources as required.
2. JP 5-0
3. JP 3-30
4. Joint Capabilities Primer
5. Joint Staff Officer's Planning Guide

Day 8: JO Exercise Day 3

DATE: 31 July 2024

LESSON OVERVIEW

JO-530 (Exercise) COA Development, COA Analysis and Wargaming, and COA Comparison (JPPA Steps 3-5 Continued)

Overview: This period is dedicated to group exercise application of JPPA steps 3-5 (COA Development, COA Analysis and Wargaming, and COA Comparison) with instructor advising and assisting.

CONTACT HOURS: 2-hour exercise

LESSON OBJECTIVES

1. Utilize appropriate activities involved in the JPPA to develop solutions to operational problems in a volatile, uncertain, complex, and ambiguous environment of strategic competition and integrated deterrence.

LESSON OVERVIEW

JO-608 (Exercise Briefing) COA Decision Brief

Overview: This period is dedicated to the group presenting an exercise COA Decision Briefing to the JO seminar instructor.

CONTACT HOURS: 1-hour briefing

LESSON OBJECTIVES

1. Apply joint planning concepts in an INDOPACOM-China scenario to develop an initial operational approach based on planning directives and guidance provided.

OVERVIEW

End of Course Survey and Exam Preparation

Overview: This period is dedicated to students preparing for the end-of-course exam and the instructor issuing guidance.

CONTACT HOURS: 30-minute preparation

LESSON OVERVIEW

JO-609 End-of-Course Exam

Overview: This period is dedicated to students completing the end-of-course exam.

CONTACT HOURS: 80-minute exam

DAILY EXERCISE MATERIALS (AS NEEDED)

1. JO Exercise INDOPACOM-China scenario planning guidance, research materials, threat information, and other open-source research sources as required.
2. JP 5-0
3. JP 3-30
4. Joint Capabilities Primer
5. Joint Staff Officer's Planning Guide